

# Personal Systems Reference Lenovo® ThinkCentre Desktops - withdrawn

May 2013 - Version 436 (Western Europe)



Lenovo ThinkCentre M90z with Frame Stand

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Lenovo ThinkCentre M71e Small and Lenovo ThinkCentre M71e Tower





Lenovo ThinkCentre M71e Small





Lenovo ThinkCentre M71e Tower



Lenovo ThinkCentre M71e Tower with Lenovo ThinkVision monitor



Lenovo ThinkCentre M71e Small with Lenovo ThinkVision monitor



Lenovo ThinkCentre M71e Tower

# ThinkCentre® M71e Small (3132) - TopSeller - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Media reader	Chassis intr switch	Floor stand	Global Educ	Win7 preload
3132-B2G 3132-B3G		Pentium G840 Core i3-2100	2GBx1 1333MHz 2GBx1 1333MHz	320G 7200 500G 7200	DVD±RW DVD±RW	Intel HD Intel HD	Media Media	Switch Switch	None None	 N N N N	Pro 64 Pro 64

- These small and medium business (SMB) models are part of the Western Europe TopSeller™ Program
- These models have a 1-year limited warranty
  These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Essential business features, exceptional value	Preloaded operating system
Processor	Intel® Pentium® G840 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller	Genuine Windows® 7 Professional 64  Preloaded applications²0 (only some listed)  ● Rescue and Recovery™
Implementation	Processor in LGA1155 socket	ThinkVantage® System Update
Memory	8GB max, UDIMM, PC3-10600 1333MHz DDR3, two 240-pin DIMM sockets	ThinkVantage Power Manager     ThinkVantage Toolbox
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display	<ul> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011 (30 days of virus definitions)</li> </ul>
DP dongle	None	_ ● Àdobe Reader®
Disk Optical SATA controller SATA cables eSATA port	SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar None	<ul> <li>Skype™ for Windows</li> <li>Microsoft® Live</li> <li>Microsoft® Office 2010 preloaded; purchase product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Media reader	9-in-1 media reader, internal USB 2.0	_
Chipset	Intel H61 Express Chipset	_
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D	
Rear audio ports Internal connector Audio Speaker IEEE 1394 Ethernet	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Intel AMT Modem Security chip	None None None	
Keyboard Mouse Floor Stand Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo None 240 watts, autosensing, active Power Factor Correction	-
Machine Bay	Business black color; metal case  13.2" W X 15.0" D X 3.9" H  335mm W X 382mm D X 99mm H  14.5 lb (6.6 kg) in maximum configuration  Highlighted optical drive button for easy access  Bay 1: 5.25", 1.6" high, access, std optical  Bay 2: 3.5", 1" high, no access, std disk	
Slot	Bay 3: 1.5", .35" high, access, opt reader* *bay only available on models with media reader installed Slot 1: Low Profile, PCI Express® 2.0 x16 (45w max) Slot 2: Low Profile, PCle 2.0 x1 Slot 3: Low Profile, PCle 2.0 x1	Security • One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional
	disk optical	Kensington® MicroSaver® cable)  • Power-on password  • Administrator password  • Hard disk password  • Boot sequence control  • Boot without keyboard and mouse  • Serial port I/O control  • Individual USB port disablement  • Chassis intrusion switch
Limited Warranty <sup>1</sup>	1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

# ThinkCentre® M71e Small (3132) - TopSeller - II - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Media reader	Chassis intr switch	Floor stand	ENERGY STAR 5.2		Win7 preload
3132-B4G	3x3	Core i3-2120	4GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	Media	None	None	None	N N	Pro 64
3132-C3G	3x3	Pentium G850	2GBx1 1333MHz	500G 7200	DVD+RW		Media	None	None	None	N N	Pro 64

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  These models have a 1-year limited warranty
  These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Essential business features, exceptional value Intel® Pentium® G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller	Preloaded operating system <sup>20</sup> Genuine Windows® 7 Professional 64 Preloaded applications <sup>14</sup> (only some listed) • Rescue and Recovery™ • ThinkVantage® System Update
Implementation	Processor in LGA1155 socket	ThinkVantage Power Manager
Memory	8GB max <sup>7</sup> , <b>UDIMM</b> , <b>PC3-10600 1333MHz DDR3</b> , two 240-pin DIMM sockets	ThinkVantage Toolbox     Norten Minternet Security 2011
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display	Norton™ Internet Security 2011 (30 days of virus definitions)     Adobe® Reader®
DP dongle	None	Skype™ for Windows
Disk Optical SATA controller SATA cables eSATA port Media reader	SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar None 9-in-1 media reader, internal USB 2.0	Microsoft® Live     Microsoft Office 2010 preloaded; purchase product key to activate     Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)
Chipset	Intel H61 Express Chipset	-
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D	
Rear audio ports Internal connector Audio Speaker IEEE 1394	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None	
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	-
Keyboard Mouse	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	
Floor Stand	None	
Power supply	240 watts, autosensing, active Power Factor Correction	
Machine	Business black color; metal case  13.2" W X 15.0" D X 3.9" H  335mm W X 382mm D X 99mm H  14.5 lb (6.6 kg) in maximum configuration  Highlighted optical drive button for easy access  Bay 1: 5.25", 1.6" high, access, std optical  Bay 2: 3.5", 1" high, no access, std disk  Bay 3: 1.5", .35" high, access, opt reader*	
Slot	*bay only available on models with media reader installed Slot 1: Low Profile, PCI Express® 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1	Security
	disk optical	One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement
Limited Warranty <sup>12</sup>	<b>1-year</b> , <b>limited onsite service</b> <sup>24</sup> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades <sup>22</sup> available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

# ThinkCentre® M71e Small (3167) - GMP - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Media reader	Chassis intr switch	Floor stand		Global Educ	Win7 preload
3167-A1G	3x3	Core i3-2100	2GBx1 1333MHz	250G 7200	DVD+RW	Intel HD	None	Switch	Stand	None	GMP	Pro 32

- This model is part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty This system is Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Essential business features, exceptional value	Preloaded operating system
Processor	Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache),	Genuine Windows® 7
	Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller	Professional 32
Implementation	Processor in LGA1155 socket	Preloaded applications <sup>20</sup> (only some
Memory	8GB max, UDIMM, PC3-10600 1333MHz DDR3, two 240-pin DIMM sockets	listed)
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display	<ul> <li>Rescue and Recovery™</li> <li>ThinkVantage® System Update</li> <li>ThinkVantage Power Manager</li> </ul>
DP dongle	None	ThinkVantage Toolbox
Disk	SATA 3.0Gb/s 7200 rpm	<ul> <li>Norton™ Internet Security 2011</li> </ul>
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	(30 days of virus definitions)  • Adobe Reader®
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset	Skype™ for Windows
SATA cables eSATA port	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar None	Microsoft® Live
Media reader	None	Microsoft Office 2010 preloaded;
Chipset	Intel H61 Express Chipset	purchase product key to activate  Corel® Burn.Now™ (DVD±RW)
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	Corel DVD MovieFactory® (DVD±RW)
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D	
Rear audio ports Internal connector	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None Gigebit ethernet part Booltok BTI 9111E Wake on LAN®	
Ethernet Intel AMT	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN <sup>®</sup> None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	
Floor Stand	System floor stand for vertical orientation	
Power supply	240 watts, autosensing, active Power Factor Correction	
Machine	<ul> <li>Business black color; metal case</li> <li>13.2" W X 15.0" D X 3.9" H</li> <li>335mm W X 382mm D X 99mm H</li> <li>14.5 lb (6.6 kg) in maximum configuration</li> <li>Highlighted optical drive button for easy access</li> </ul>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, opt reader* *bay only available on models with media reader installed	
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1	
	Slot 3: Low Profile, PCle 2.0 x1	Security     One lock to secure both cover and entire system to fixed object:     -Padlock loop (in rear for opt padlock)     -Security slot (in rear for optional
	disk optical	Kensington® MicroSaver® cable)  • Power-on password  • Administrator password  • Hard disk password  • Boot sequence control  • Boot without keyboard and mouse  • Serial port I/O control  • Individual USB port disablement  • Chassis intrusion switch
Limited Warranty <sup>1</sup>	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies
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Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Media reader	Chassis intr switch	Floor stand	ENERGY STAR 5.2		Win7 preload
5033-A1G	3x3	Core i3-2100	4GBx1 1333MHz	250G 7200	DVD±RW	Intel HD	None	Switch	Stand	ES5.2	GΡ	Pro 64
5033-A2G	3x3	Core i5-2400	4GBx1 1333MHz	500G 7200	$DVD\pm RW$	Intel HD	None	Switch	Stand	ES5.2	GΡ	Pro 64
5033-A3G	3x3	Core i3-2120	4GBx1 1333MHz	250G 7200	DVD±RW	Intel HD	None	Switch	Stand	ES5.2	GΡ	Pro 64

- These models are part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Essential business features, exceptional value	Preloaded operating system
Processor	Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics,	Genuine Windows® 7 Professional 64
	integrated 1333MHz dual-channel DDR3 memory controller  Intel Core i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),  Virtualization Technology, integrated Intel HD Graphics,	<b>Preloaded applications</b> <sup>20</sup> (only some listed)
	integrated 1333MHz dual-channel DDR3 memory controller	Rescue and Recovery™
	Intel Core i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics,	ThinkVantage® System Update
	integrated 1333MHz dual-channel DDR3 memory controller	<ul><li>ThinkVantage Power Manager</li><li>ThinkVantage Toolbox</li></ul>
Implementation	Processor in LGA1155 socket	<ul> <li>Norton™ Internet Security 2011</li> </ul>
Memory	8GB max, UDIMM, PC3-10600 1333MHz DDR3, two 240-pin DIMM sockets	(30 days of virus definitions)  - ◆ Adobe Reader®
Graphics DP dongle	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display None	<ul> <li>Skype™ for Windows</li> <li>Microsoft® Live</li> </ul>
Disk	SATA 3.0Gb/s 7200 rpm	Microsoft Office 2010 preloaded; purchase product key to activate
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Corel® Burn.Now™ (DVD±RW)
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset	<ul> <li>Corel DVD MovieFactory<sup>®</sup> (DVD±RW)</li> </ul>
SATA cables	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar	
eSATA port Media reader	None None	
Chipset	Intel H61 Express Chipset	_
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	-
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
Internal connector Audio	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Intel AMT	None	
Modem Security chip	None None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	_
Mouse	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	
Floor Stand	System floor stand for vertical orientation	
Power supply	240 watts, autosensing, 85% PSU	_
Machine	<ul> <li>Business black color; metal case</li> <li>13.2" W X 15.0" D X 3.9" H</li> </ul>	
	• 335mm W X 382mm D X 99mm H	
	• 14.5 lb (6.6 kg) in maximum configuration	Security  One lock to secure both cover and
Bay	<ul> <li>Highlighted optical drive button for easy access</li> <li>Bay 1: 5.25", 1.6" high, access, std optical</li> </ul>	entire system to fixed object:
Бау	Bay 2: 3.5", 1" high, no access, std disk	-Padlock loop (in rear for opt padlock)
	Bay 3: 1.5", .35" high, access, opt reader*	-Security slot (in rear for optional Kensington® MicroSaver® cable)
Slot	*bay only available on models with media reader installed Slot 1: Low Profile, PCI Express® 2.0 x16 (45w max)	Power-on password
Olot	Slot 2: Low Profile, PCIe 2.0 x1	Administrator password
	Slot 3: Low Profile, PCle 2.0 x1	<ul><li>Hard disk password</li><li>Boot sequence control</li></ul>
	disk optical	<ul> <li>Boot without keyboard and mouse</li> </ul>
		<ul><li>Serial port I/O control</li><li>Individual USB port disablement</li></ul>
		Chassis intrusion switch
		Climate Saver-compliant
		EPEAT™ Gold rating
Limited Warranty <sup>1</sup>	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and	- ENERGY STAR 5.2-compliant GREENGUARD® certified
	national holidays. Calls received after 3 pm will require an additional next business day	RoHS-compliant
	for service dispatch / service upgrades <sup>22</sup> available	Supports ThinkVantage Technologies

# ThinkCentre® M71e Tower (3129) - TopSeller - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Media reader	Chassis intr switch	ENERGY STAR 5.2	Global Educ	Win7 preload
3129-A2G	3x4	Pentium G840	2GBx1 1333MHz	320G 7200	Bay	DVD±RW	Intel HD	Media	Switch	None	ΝN	Pro 64
3129-A3G	3x4	Core i3-2100	2GBx1 1333MHz	500G 7200	Bay	DVD±RW	Intel HD	Media	Switch	None	ΝN	Pro 64
3129-A4G	3x4	Core i3-2120	4GBx1 1333MHz	500G 7200	Bay	DVD±RW	Intel HD	Media	Switch	None	ΝN	Pro 64
3129-A6G	3x4	Pentium G620	2GBx1 1333MHz	500G 7200	Bay	DVD±RW	Intel HD	Media	Switch	None	ΝN	Pro 64
3129-A7G	3x4	Pentium G620	4GBx1 1333MHz	320G 7200	Bay	DVD±RW	Intel HD	Media	Switch	None	ΝN	Pro 64
3129-A8G	3x4	Core i3-2100	4GBx1 1333MHz	320G 7200	Bay	DVD±RW	Intel HD	Media	Switch	None	ΝN	Pro 64

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- These models have a 1-year limited warranty
- These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Essential hyginese features, exceptional value	Broloaded energting system
Positioning Processor	Essential business features, exceptional value Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.6GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium G840 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),	Preloaded operating system Genuine Windows® 7 Professional 64 Preloaded applications²⁰ (only some listed)  • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Power Manager • ThinkVantage Toolbox
	Virtualization Technology, integrated Intel HD Graphics,	Norton™ Internet Security 2011     (30 days of virus definitions)
Implementation	integrated 1333MHz dual-channel DDR3 memory controller	Adobe Reader®
Implementation Memory	Processor in LGA1155 socket  8GB max, UDIMM, PC3-10600 1333MHz DDR3, two 240-pin DIMM sockets	<ul> <li>Skype™ for Windows</li> <li>Microsoft® Live</li> </ul>
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1,	<ul> <li>Microsoft Office 2010 preloaded;</li> </ul>
DP dongle	one VGA, one DVI-D, supports dual independent display None	purchase product key to activate  • Corel® Burn.Now™ (DVD±RW)  • Corel DVD MovieFactory® (DVD±RW)
Disk	SATA 3.0Gb/s 7200 rpm	Core DVD MovieFactory (DVD±RW)
Optical SATA controller SATA cables eSATA port Media reader	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar None 9-in-1 media reader, internal USB 2.0	
Chipset	Intel H61 Express Chipset	-
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D	-
Rear audio ports Internal connector Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None Gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None None None	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo 280 watts with variable speed fan, manual switch	
Machine	Business black color; metal case 6.3" W X 16.6" D X 15.3" H 160mm W X 422mm D X 388mm H 20.7 lb (9.4 kg) in maximum configuration Handle on top front Highlighted optical drive button for easy access	Security  • One lock to secure both cover and
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, opt disk Bay 4: 3.5", 1" high, no access, std disk *bay only available on models with media reader installed	entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable)  • Power-on password
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1	Administrator password     Hard disk password     Boot sequence control     Boot without keyboard and mouse     Serial port I/O control     Individual USB port disablement     Chassis intrusion switch
Limited Warranty <sup>1</sup>	<b>1-year</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

# ThinkCentre® M71e Tower (3129) - TopSeller - II - withdrawn

Type-model	Slot 3 bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Media reader	Chassis intr switch	ENERGY STAR 5.2	Global (G GMP (P)	
3129-B1G	3x4	Pentium G840	4GBx1 1333MHz	500G 7200	Bay	DVD±RW	Intel HD	Media	None	None	ΝN	Pro 64
3129-B2G	3x4	Core i5-2400	4GBx1 1333MHz	500G 7200	Bay	DVD±RW	Intel HD	Media	None	None	ΝN	Pro 64
3129-B3G	3x4	Core i3-2120	4GBx1 1333MHz	500G 7200	Bay	DVD±RW	HD 5450	Media	None	None	ΝN	Pro 64
3129-B5G	3x4	Pentium G630	2GBx1 1333MHz	500G 7200	Bay	DVD±RW	Intel HD	Media	None	None	ΝN	Pro 64
3129-B6G	3x4	Pentium G630	4GBx1 1333MHz	500G 7200	Bay	DVD±RW	Intel HD	Media	None	None	NN	Pro 64
3129-B7G	3x4	Core i3-2120	4GBx1 1333MHz	1TB 7200	Bay	DVD±RW	Intel HD	Media	None	None	ΝN	Pro 64
3129-B8G	3x4	Core i5-2400	4GBx1 1333MHz	1TB 7200	Bay	DVD±RW	HD 5450	Media	None	None	ΝN	Pro 64

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- These models have a 1-year limited warranty
  These systems are Microsoft Office 2010 Productions

  These systems are Microsoft Office 2010 Productions.

	● These systems are Microsoft Office 2010 Product Key Ready (O10PKR)	
Positioning Processor	Essential business features, exceptional value Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium G840 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	Preloaded operating system <sup>20</sup> Genuine Windows® 7 Professional 64 Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Microsoft® Live
Memory	8GB max <sup>7</sup> , <b>UDIMM</b> , <b>PC3-10600 1333MHz DDR3</b> , two 240-pin DIMM sockets	Microsoft Office 2010 preloaded;
Graphics	Some: Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display;  Some: AMD Radeon™ HD 5450, PCI Express® 2.0 x16 adapter, HDCP, DirectX 11, 512MB, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 25 watts; works along with Intel HD Graphics to support four independent monitors	purchase product key to activate  • Corel® Burn.Now™ (DVD±RW)  • Corel DVD MovieFactory® (DVD±RW)
DP dongle	None	
Disk Optical SATA controller SATA cables eSATA port Media reader	SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar None 9-in-1 media reader, internal USB 2.0	
Chipset	Intel H61 Express Chipset	-
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D	
Rear audio ports Internal connector Audio Speaker IEEE 1394	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None	
Ethernet Intel AMT Modem	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None None	
Security chip	None	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo 280 watts with variable speed fan, manual switch	
Machine	Business black color; metal case  6.3" W X 16.6" D X 15.3" H  160mm W X 422mm D X 388mm H  20.7 lb (9.4 kg) in maximum configuration  Handle on top front  Highlighted optical drive button for easy access	Security  • One lock to secure both cover and entire system to fixed object:
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, opt disk Bay 4: 3.5", 1" high, no access, std disk *bay only available on models with media reader installed	-Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable)  • Power-on password • Administrator password
Slot	Slot 2: half-length, full-height, PCIe 2.0 x1	Hard disk password     Boot sequence control     Boot without keyboard and mouse     Serial port I/O control     Individual USB port disablement
Limited Warranty <sup>12</sup>	1-year, limited onsite service <sup>24</sup> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades <sup>22</sup> available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

#### ThinkCentre® M71e Tower (3129) - TopSeller - III - withdrawn

Slot 2 Type-model bay	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Media reader	Chassis intr switch	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
	4GBx1 1333MHz 4GBx1 1333MHz		,					None None			11/22/11

- These small and medium business (SMB) models are part of the Western Europe TopSeller™ Program
- These models have a 1-year limited warranty
- These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Essential business features, exceptional value Intel® Pentium® G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	Preloaded operating system <sup>20</sup> Genuine Windows® 7 Professional 64 Preloaded applications <sup>14</sup> (only some listed) • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Payer Manager				
	-	ThinkVantage Power Manager ThinkVantage Toolbox				
Memory	8GB max <sup>'</sup> , <b>UDIMM</b> , <b>PC3-10600 1333MHz DDR3</b> , two 240-pin DIMM sockets	Norton™ Internet Security 2011				
Graphics	Some: Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display; Some: AMD Radeon™ HD 5450, PCI Express® 2.0 x16 adapter, HDCP, DirectX 11, 512MB, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort™, 25 watts; works along with Intel HD Graphics to support four independent monitors	(30 days of virus definitions)  • Adobe® Reader®  • Skype™ for Windows  • Microsoft® Live				
DP dongle	None	Microsoft Office 2010 preloaded;     purchase product key to activate				
Disk	SATA 3.0Gb/s 7200 rpm	Corel® Burn.Now™ (DVD±RW)      Corel® Burn.Now™ (DVD±RW)				
Optical SATA controller SATA cables eSATA port	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar None	Corel DVD MovieFactory® (DVD±RW)				
Media reader	9-in-1 media reader, internal USB 2.0					
Chipset	Intel H61 Express Chipset					
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D					
Rear audio ports Internal connector Audio Speaker	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio					
IEEE 1394 Ethernet Intel AMT	None Gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None					
Modem Security chip	None None	_				
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo 280 watts with variable speed fan, manual switch					
Machine	Business black color; metal case 6.3" W X 16.6" D X 15.3" H 160mm W X 422mm D X 388mm H 20.7 lb (9.4 kg) in maximum configuration Handle on top front Highlighted optical drive button for easy access					
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, opt disk Bay 4: 3.5", 1" high, no access, std disk *bay only available on models with media reader installed	Security				
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1	One lock to secure both cover and entire system to fixed object:     -Padlock loop (in rear for opt padlock)     -Security slot (in rear for optional Kensington® MicroSaver® cable)     Power-on password     Administrator password     Hard disk password     Boot sequence control     Boot without keyboard and mouse				
_imited Warranty <sup>12</sup>	<b>1-year</b> , <b>limited onsite service</b> <sup>24</sup> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day	Serial port I/O control     Individual USB port disablement  GREENGUARD® certified RoHS-compliant				
	for service dispatch / service upgrades <sup>22</sup> available	Supports ThinkVantage Technologies				

# ThinkCentre® M71e Tower (3129) - TopSeller (DOS) - withdrawn

Type-model	Slot > bay		Memory <sup>8</sup>	SATA disk 2 GB rpm	2nd Disk Bay		Graphics		Chassis intr switch				Ann date (mm/dd/yy)
3129-A5G	3x4	Pentium G620	2GBx1 1333MHz	320G 7200	Bay	DVD±RW	Intel HD	Media	Switch	None	ΝN	DOS-Lic.	06/07/11
3129-B4G	3x4	Pentium G630	2GBx1 1333MHz	320G 7200	Bay	DVD±RW	Intel HD	Media	None	None	ΝN	DOS-Lic.	09/06/11
3129-C2G	3x4	Pentium G630	2GBx1 1333MHz	500G 7200	Bay	DVD±RW	Intel HD	Media	Switch	None	ΝN	DOS-Lic.	12/06/11
3129-C3G	3x4	Pentium G630	2GBx1 1333MHz	250G 7200	Bay	DVD±RW	Intel HD	None	Switch	None	ΝN	DOS-Lic.	12/13/11

- These small and medium business (SMB) models are part of the Western Europe TopSeller™ Program
- These models have a 1-year limited warranty

Positioning Processor	Essential business features, exceptional value  Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.6GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache),	Security  One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional
	Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller	Kensington® MicroSaver® cable)  • Power-on password
Implementation	Processor in LGA1155 socket	Administrator password     Hard disk password
Memory	8GB max, UDIMM, PC3-10600 1333MHz DDR3, two 240-pin DIMM sockets	Hard disk password     Boot sequence control
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display	Boot without keyboard and mouse     Serial port I/O control
DP dongle	None	<ul> <li>Individual USB port disablement</li> <li>Some: Chassis intrusion switch</li> </ul>
Disk	SATA 3.0Gb/s 7200 rpm	GREENGUARD® certified
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	RoHS-compliant
SATA controller SATA cables	Serial ATA, SATA 3.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar	Supports ThinkVantage® Technologies
eSATA cables eSATA port	None	oupports miniciantage recimologics
Media reader	Some: 9-in-1 media reader, internal USB 2.0	
Chipset	Intel H61 Express Chipset	-
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	-
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D	
Audio	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Intel AMT Modem	None None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	-
Mouse	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, manual switch	
Machine	Business black color; metal case	-
	<ul> <li>6.3" W X 16.6" D X 15.3" H</li> <li>160mm W X 422mm D X 388mm H</li> <li>20.7 lb (9.4 kg) in maximum configuration</li> <li>Handle on top front</li> <li>Highlighted optical drive button for easy access</li> </ul>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, opt disk Bay 4: 3.5", 1" high, no access, std disk *bay only available on models with media reader installed optical	
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1	
Limited Warranty <sup>1</sup>	1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	-

#### ThinkCentre® M71e Tower (3166) - GMP - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Media reader	Chassis intr switch	ENERGY STAR 5.2	Global Educ	Win7 preload
3166-A1G	3x4	Core i3-2100	2GBx1 1333MHz	250G 7200	Bav	DVD+RW	Intel HD	None	Switch	None	GMP	Pro 32

- This model is part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty This system is Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Essential business features, exceptional value	Preloaded operating system
Processor	Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller	Genuine Windows® 7 Professional 32
Implementation	Processor in LGA1155 socket	Preloaded applications <sup>20</sup> (only some
Memory	8GB max, UDIMM, PC3-10600 1333MHz DDR3, two 240-pin DIMM sockets	listed)
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display	<ul> <li>Rescue and Recovery™</li> <li>ThinkVantage® System Update</li> <li>ThinkVantage Power Manager</li> </ul>
DP dongle	None	ThinkVantage Toolbox
Disk Optical	SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Norton™ Internet Security 2011 (30 days of virus definitions)     Adobe Reader®
SATA controller SATA cables	Serial ATA, SATA 3.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar	Skype™ for Windows     Microsoft® Live
eSATA port	None	Microsoft Office 2010 preloaded;
Media reader	None	purchase product key to activate
Chipset	Intel H61 Express Chipset	Corel® Burn.Now™ (DVD±RW)     Corel DVD Movie Feetery® (DVD+RW)
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D	Corel DVD MovieFactory® (DVD±RW)
	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio	
IEEE 1394	None	
Ethernet Intel AMT	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None	
Modem	None	
Security chip	None	
Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	-
Power supply	280 watts with variable speed fan, manual switch	
Machine	Business black color; metal case 6.3" W X 16.6" D X 15.3" H 160mm W X 422mm D X 388mm H 20.7 lb (9.4 kg) in maximum configuration Handle on top front Highlighted optical drive button for easy access	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, opt disk Bay 4: 3.5", 1" high, no access, std disk *bay only available on models with media reader installed	
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1	Security  • One lock to secure both cover and
		entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable)  Power-on password Administrator password Hard disk password  Boot sequence control  Boot without keyboard and mouse
		Serial port I/O control     Individual USB port disablement     Chassis intrusion switch
Limited Warranty <sup>1</sup>	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant
	ioi scritice dispateri / service apgrades available	Supports ThinkVantage Technologies

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Media Graphics reader		Chassis ENERGY intr switch STAR 5.2		) Win7 preload
3177-A1G	3x4	Core i3-2100	4GBx1 1333MHz	250G 7200	Bay	DVD±RW	Intel HD	None	Switch	ES5.2	GΡ	Pro 64
3177-A2G	3x4	Core i5-2400	4GBx1 1333MHz	500G 7200	Bay	DVD±RW	Intel HD	None	Switch	ES5.2	GΡ	Pro 64
3177-A3G	3x4	Core i3-2120	4GBx1 1333MHz	250G 7200	Bay	DVD±RW	Intel HD	None	Switch	ES5.2	GΡ	Pro 64

- These models are part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
- These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Essential business features, exceptional value	Preloaded operating system				
Processor	Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller	Genuine Windows® 7 Professional 64  Preloaded applications²0 (only some listed)  • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Power Manager • ThinkVantage Toolbox				
Implementation	Processor in LGA1155 socket	Norton™ Internet Security 2011				
Memory	8GB max, UDIMM, PC3-10600 1333MHz DDR3, two 240-pin DIMM sockets	(30 days of virus definitions)				
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display	<ul> <li>Adobe Reader<sup>®</sup></li> <li>Skype<sup>™</sup> for Windows</li> <li>Microsoft<sup>®</sup> Live</li> </ul>				
DP dongle	None	<ul> <li>Microsoft Office 2010 preloaded;</li> </ul>				
Disk Optical SATA controller SATA cables eSATA port Media reader	SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar None None	purchase product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)				
Chipset	Intel H61 Express Chipset	-				
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DVI-D	-				
	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None Gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None None None					
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing, 85% PSU	-				
Machine	Business black color; metal case 6.3" W X 16.6" D X 15.3" H 160mm W X 422mm D X 388mm H 20.7 lb (9.4 kg) in maximum configuration Handle on top front	Security				
Вау	Highlighted optical drive button for easy access  Bay 1: 5.25", 1.6" high, access, std optical  Bay 2: 1.5", .35" high, access, opt reader*  Bay 3: 3.5", 1" high, no access, opt disk  Bay 4: 3.5", 1" high, no access, std disk  *bay only available on models with media reader installed	One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password				
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1	Administrator password     Hard disk password     Boot sequence control     Boot without keyboard and mouse     Serial port I/O control     Individual USB port disablement     Chassis intrusion switch  Climate Saver-compliant				
Limited Warranty <sup>1</sup>	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades <sup>22</sup> available	EPEAT™ Gold rating  ENERGY STAR 5.2-compliant  GREENGUARD® certified				





Lenovo ThinkCentre M71z All-In-One (Wireless Keyboard & mouse on selected models only)



Lenovo ThinkCentre M71z All-In-One



Lenovo ThinkCentre M71z All-In-One



Handle



Lenovo ThinkCentre M71z with Frame Stand



Lenovo ThinkCentre M71z with Monitor Stand

#### ThinkCentre® M71z (1741) - TopSeller - withdrawn

Type-model	Processor	Memory <sup>8</sup>	Widescreen display	Camera (mega- pixel)		SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Serial port	PS/2 port		Keyboard /Mouse		
1741-A5G	G620	2GBx1	20.0" HD+	2.0M	320G 7200	DVD±RW	Intel HD	11b/g/n	Media	Serial	None	None	USB	None	Pro 32
1741-A6G	G840	4GBx1	20.0" HD+	2.0M	500G 7200	DVD±RW	Intel HD	11b/g/n	Media	Serial	None	None	USB	None	Pro 64
1741-A7G	i3-2120	4GBx1	20.0" HD+	2.0M	500G 7200	DVD±RW	Intel HD	11b/g/n	Media	Serial	None	None	2.4G	None	Pro 64
1741-B1G	G630	4GBx1	20.0" HD+	None	500G 7200	DVD±RW	Intel HD	11b/g/n	Media	None	None	None	USB	None	Pro 64

- Best space saving solution & excellent cable management
  These small and medium business (SMB) models are part of the Western Europe TopSeller™ Program
  These models have a 1-year limited warranty
  These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

	• These systems are Microsoft Office 2010 Product Key Ready (O10PKR)	
Positioning Processor  Implementation Memory Graphics  DP dongle Display  Multi-touch Camera  Controls  Disk Optical eSATA port Media reader Chipset Rear ports Side ports PCIe Mini Card PCIe WLAN⁴ Bluetooth™ Ethernet Audio Speaker	All-In-One PC for the enterprise Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.6GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium G840 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket  8GB max², PC3-10600 1333MHz DDR3, two 204-pin SODIMM sockets (notebook) Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 1920x1080 (DisplayPort) @ 60Hz None 20.0™ (508mm) HD+ (1600x900) TFT color, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio None Some: Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off Front facing buttons for brightness up/auto, brightness down, and power on/off SATA 3.0Gb/s, 3.5™ Wide, 7200 rpm DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable None 8-in-1 Single Slot SD media reader Intel H61 Express Chipset Four USB 2.0, optional serial (9-pin), ethernet (RJ-45), DisplayPort connector Two USB 2.0, optional serial (9-pin), ethernet (RJ-45), DisplayPort connector Two USB 2.0, optional serial (9-pin), ethernet (RJ-45), DisplayPort connector Two USB 2.0, optional serial (9-pin), ethernet (RJ-45), DisplayPort c	Preloaded operating system <sup>20</sup> Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64 Preloaded applications¹⁴ (only some listed)  • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Microsoft® Office 2010 preloaded; purchase product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) • Corel WinDVD® (DVD, DVD±RW)
Modem IEEE 1394 Security chip	None None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	Security
Keyboard  Mouse  Power supply	Some: Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black Some: Enhanced Optical USB Mouse, 1000dpi, black, Lenovo logo Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black 150 watts, autosensing, 85% PSU	Security chip (see information on left)     Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
Machine  Limited Warranty <sup>12</sup>	Model(s) with Non multi-touch, Frame stand:  Business black color  20.0" W X 4.0" D X 16.2" H  507mm W X 101mm D X 411mm H (including stand)  16.4 lb (7.5 kg) in maximum configuration  Handle in rear  Support VESA mount (100mm)  Removable feet	Boot sequence control     Boot without keyboard and mouse     USB port disablement     Chassis intrusion switch     EPEAT™ Gold rating     Climate Saver-compliant     ENERGY STAR® 5.2-compliant     TCO Certified Edge     GREENGUARD® certified
Limited warranty	<sup>2</sup> 1-year, limited onsite service <sup>24</sup> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades <sup>22</sup> available	RoHS-compliant Supports ThinkVantage Technologies

Type-model	Processor	Memory <sup>8</sup>	Widescreen display		SATA optical	Graphics	PCIe Mini Card WLAN		PS/2 port	Display- Port dongle	Keyboard /Mouse	l Global	Win7 preload
1782-B5G 1782-B6G	i3-2100 G620		20.0" HD+ 20.0" HD+								2.4G 2.4G		

- Best space saving solution & excellent cable management
  These models have a 3-year limited warranty
  These systems are Microsoft<sup>®</sup> Office 2010 Product Key Ready (O10PKR)

Positioning Processor	All-In-One PC for the enterprise Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.6GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	Preloaded operating system <sup>20</sup> Genuine Windows® 7 Professional 64 Preloaded applications¹⁴ (only some listed)  • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Power Manager
Memory	8GB max <sup>7</sup> , <b>PC3-10600 1333MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	ThinkVantage Toolbox
Graphics  DP dongle Display	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 1920x1080 (DisplayPort)@60Hz None 20.0" (508mm) HD+ (1600x900) TFT color, CCFL backlight,	<ul> <li>Norton™ Internet Security 2011         (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> <li>Microsoft® Office 2010 preloaded;</li> </ul>
Multi-touch Camera Controls	250 nits, 16:9 aspect ratio, 1000:1 contrast ratio None Some: Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off Front facing buttons for brightness up/auto, brightness down, and power on/off	purchase product key to activate  • Corel® Burn.Now™ (DVD±RW)  • Corel DVD MovieFactory® (DVD±RW)  • Corel WinDVD® (DVD±RW)
Disk Optical eSATA port Media reader	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable None 8-in-1 Single Slot SD media reader	
Chipset	Intel H61 Express Chipset	
Rear ports Side ports PCIe Mini Card PCIe WLAN⁴ Bluetooth™ Ethernet Audio Speaker Intel AMT Modem IEEE 1394	Four USB 2.0, optional serial (9-pin), ethernet (RJ-45), DisplayPort connector Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)  One PCI Express® Mini Card slot 11b/g/n wireless, Mini PCIe adapter, Broadcom® BCM43227, 2x2  None  One gigabit ethernet port, Realtek® RTL8111E-VB  High Definition (HD) Audio, Realtek ALC269Q  Two internal stereo speakers (2x2w) with amplifier  None  None  None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	Security
Keyboard Mouse Power supply	Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black 150 watts, autosensing, 85% PSU	Security chip (see information on left)     Security slot (in rear for attachment of optional Kensington® MicroSaver® cable;
Machine	Model(s) with Non multi-touch, Frame stand:  • Business black color  • 20.0" W X 4.0" D X 16.2" H  • 507mm W X 101mm D X 411mm H (including stand)  • 16.4 lb (7.5 kg) in maximum configuration  • Handle in rear	Kensington lock also locks chassis)  Boot sequence control  Boot without keyboard and mouse  USB port disablement  Chassis intrusion switch
Limited Warranty <sup>12</sup>	<ul> <li>Support VESA mount (100mm)</li> <li>Removable feet</li> </ul> 3-years, limited onsite service <sup>24</sup> , 8 am-5 pm, Mon - Fri coverage excluding public and	EPEAT™ Gold rating Climate Saver-compliant ENERGY STAR® 5.2-compliant TCO Certified Edge GREENGUARD® certified
•	national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades <sup>22</sup> available	RoHS-compliant Supports ThinkVantage Technologies

Type-model	Processor N	Memory <sup>8</sup>	Widescreen display	Camera (mega- pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Serial port	PS/2	Display- Port dongle	Keyboard /Mouse	Global (G GMP (P)	i) Win7 preload
1962-A1G	i3-2100 4	4GBx1	20.0" HD+	2.0M	250G 7200	DVD±RW	Intel HD	11b/g/n	Media	None	None	None	USB	GΡ	Pro 64
1962-E5G	i5-2400S 4	4GBx1	20.0" HD+	2.0M	250G 7200	DVD±RW	Intel HD	11b/g/n	Media	None	None	None	USB	GΡ	Pro 64
1962-F1G	i3-2120 4	4GBx1	20.0" HD+	2.0M	250G 7200	DVD±RW	Intel HD	11b/g/n	Media	None	None	None	USB	GΡ	Pro 64

- Best space saving solution & excellent cable management
  These models are part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
  These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning Processor	All-In-One PC for the enterprise Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i5-2400S Processor (4 cores / 4 threads, 2.5GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.3GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	Preloaded operating system <sup>20</sup> Genuine Windows® 7 Professional 64 Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions)
Memory	8GB max <sup>7</sup> , <b>PC3-10600 1333MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	Adobe® Reader®
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 1920x1080 (DisplayPort)@60Hz	Skype™ for Windows     Microsoft® Office 2010 preloaded;     purchase product key to activate     Cond® Pour New W (DVD - PM)
DP dongle Display	None 20.0" (508mm) HD+ (1600x900) TFT color, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio	Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)     Corel WinDVD (DVD±RW)
Multi-touch Camera	None Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off	
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off	
Disk	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm	1
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
eSATA port	None	
Media reader	8-in-1 Single Slot SD media reader	
Chipset	Intel H61 Express Chipset	
Rear ports Side ports PCIe Mini Card PCIe WLAN⁴ Bluetooth™ Ethernet Audio Speaker	Four USB 2.0, optional serial (9-pin), ethernet (RJ-45), DisplayPort connector Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)  One PCI Express® Mini Card slot 11b/g/n wireless, Mini PCle adapter, Broadcom® BCM43227, 2x2  None One gigabit ethernet port, Realtek® RTL8111E-VB  High Definition (HD) Audio, Realtek ALC269Q  Two internal stereo speakers (2x2w) with amplifier	
Intel AMT	None	
Modem	None	
IEEE 1394 Security chip	None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	Security
Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000dpi, black, Lenovo logo	Security chip (see information on left)     Security slot (in rear for attachment of optional Kensington® MicroSaver® cable;
Power supply Machine	150 watts, autosensing, 85% PSU	Kensington lock also locks chassis)
iviaciiiie	Model(s) with Non multi-touch, Frame stand:  • Business black color	Boot sequence control
	• 20.0" W X 4.0" D X 16.2" H	Boot without keyboard and mouse
	• 507mm W X 101mm D X 411mm H (including stand)	USB port disablement
	• 16.4 lb (7.5 kg) in maximum configuration	Chassis intrusion switch  EDEATIM Cold actions
	Handle in rear	EPEAT™ Gold rating
	Support VESA mount (100mm)	Climate Saver-compliant ENERGY STAR® 5.2-compliant
	Removable feet	TCO Certified Edge
Limited Warranty <sup>12</sup>	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and	GREENGUARD® certified
,	national holidays. Calls received after 3 pm will require an additional next business day	RoHS-compliant
	for service dispatch / service upgrades <sup>22</sup> available	Supports ThinkVantage Technologies

See footnotes for important warranty information WE models announced September 27, 2011 or February 21, 2012 WE models withdrawn effective January 2013

Type-model	Processor	Memory <sup>8</sup>	Widescreen display		SATA optical	Graphics	PCIe Mini Card WLAN		PS/2 port	Display- Port dongle	Keyboard /Mouse	Win7 Global preload
1677-B1G 1677-B2G			20.0" HD+ 20.0" HD+									None Pro 64 None Pro 64

- Best space saving solution & excellent cable management
  These models have a 3-year limited warranty
  These systems are Microsoft<sup>®</sup> Office 2010 Product Key Ready (O10PKR)

Positioning Processor	All-In-One PC for the enterprise Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.6GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller	Preloaded operating system <sup>20</sup> Genuine Windows® 7 Professional 64 Preloaded applications¹⁴ (only some listed)  ■ Rescue and Recovery™ ■ ThinkVantage® System Update
Implementation	Processor in LGA1155 socket	ThinkVaritage
Memory	8GB max <sup>7</sup> , <b>PC3-10600 1333MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	ThinkVantage Toolbox
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 1920x1080 (DisplayPort)@60Hz	Norton™ Internet Security 2011     (30 days of virus definitions)     Adobe® Reader®
DP dongle Display	None 20.0" (508mm) HD+ (1600x900) TFT color, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio	<ul> <li>Skype™ for Windows</li> <li>Microsoft® Office 2010 preloaded; purchase product key to activate</li> </ul>
Multi-touch Camera Controls	Supports Multi-touch function Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off Front facing buttons for brightness up/auto, brightness down, and power on/off	Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)     Corel WinDVD® (DVD±RW)
Disk Optical eSATA port Media reader	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable None 8-in-1 Single Slot SD media reader	-
Chipset	Intel H61 Express Chipset	
Rear ports Side ports PCIe Mini Card PCIe WLAN⁴ Bluetooth™ Ethernet Audio Speaker Intel AMT Modem	Four USB 2.0, optional serial (9-pin), ethernet (RJ-45), DisplayPort connector Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) One PCI Express® Mini Card slot 11b/g/n wireless, Mini PCIe adapter, Broadcom® BCM43227, 2x2 None One gigabit ethernet port, Realtek® RTL8111E-VB High Definition (HD) Audio, Realtek ALC269Q Two internal stereo speakers (2x2w) with amplifier None None	
IEEE 1394 Security chip	None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	Security
Keyboard Mouse Power supply	Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black 150 watts, autosensing, 85% PSU	Security chip (see information on left)     Security slot (in rear for attachment of optional Kensington® MicroSaver® cable;
Machine	Model(s) with multi-touch, Frame stand:  • Business black color  • 20.0" W X 4.2" D X 16.2" H  • 507mm W X 107mm D X 411mm H (including stand)  • 19.5 lb (8.9 kg) in maximum configuration	Kensington lock also locks chassis)  ■ Boot sequence control  ■ Boot without keyboard and mouse  ■ USB port disablement  ■ Chassis intrusion switch  EPEAT™ Gold rating
	<ul> <li>Handle in rear</li> <li>Support VESA mount (100mm)</li> <li>Removable feet</li> </ul>	Climate Saver-compliant ENERGY STAR® 5.2-compliant TCO Certified Edge
Limited Warranty <sup>12</sup>	<b>3-years, limited onsite service</b> <sup>24</sup> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades <sup>22</sup> available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

See footnotes for important warranty information WE models announced August 9, 2011 WE models withdrawn effective January 2013

Type-model	Processor M	Memory <sup>8</sup>	Widescreen display	Camera (mega- pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Serial port	PS/2	Display- Port dongle	Keyboard /Mouse	Global (G GMP (P)	i) Win7 preload
1938-A1G	i3-2100	4GBx1	20.0" HD+	2.0M	250G 7200	DVD±RW	Intel HD	11b/g/n	Media	None	None	None	USB	GΡ	Pro 64
1938-A4G	i5-2400S 4	4GBx1	20.0" HD+	2.0M	250G 7200	DVD±RW	Intel HD	11b/g/n	Media	None	None	None	USB	GΡ	Pro 64
1938-B1G	i3-2120	4GBx1	20.0" HD+	2.0M	250G 7200	DVD±RW	Intel HD	11b/g/n	Media	None	None	None	USB	GΡ	Pro 64

- •Best space saving solution & excellent cable management
- These models are part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
   These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning Processor  Implementation Memory Graphics  DP dongle Display	All-In-One PC for the enterprise Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i5-2400S Processor (4 cores / 4 threads, 2.5GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.3GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket  8GB max <sup>7</sup> , PC3-10600 1333MHz DDR3, two 204-pin SODIMM sockets (notebook) Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 1920x1080 (DisplayPort)@60Hz None 20.0" (508mm) HD+ (1600x900) TFT color, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio	Preloaded operating system <sup>20</sup> Genuine Windows® 7 Professional 64 Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Microsoft® Office 2010 preloaded; purchase product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) • Corel WinDVD (DVD±RW)
Multi-touch Camera	Supports Multi-touch function Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off	, ,
Controls	Front facing buttons for brightness up/auto, brightness down, and power on/off	
Disk Optical eSATA port	SATA 3.0Gb/s, 3.5" Wide, 7200 rpm DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable None	
Media reader	8-in-1 Single Slot SD media reader	_
Chipset	Intel H61 Express Chipset	-
Rear ports Side ports PCIe Mini Card PCIe WLAN⁴ Bluetooth™ Ethernet Audio Speaker Intel AMT Modem IEEE 1394	Four USB 2.0, optional serial (9-pin), ethernet (RJ-45), DisplayPort connector Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)  One PCI Express® Mini Card slots  11b/g/n wireless, Mini PCle adapter, Broadcom® BCM43227, 2x2  None  One gigabit ethernet port, Realtek® RTL8111E-VB  High Definition (HD) Audio, Realtek ALC269Q  Two internal stereo speakers (2x2w) with amplifier  None  None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	Security
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000dpi, black, Lenovo logo 150 watts, autosensing, 85% PSU	Security chip (see information on left)     Security slot (in rear for attachment of optional Kensington® MicroSaver® cable;     Kensington lock also locks chassis)
Machine	Model(s) with multi-touch, Frame stand:  • Business black color  • 20.0" W X 4.2" D X 16.2" H  • 507mm W X 107mm D X 411mm H (including stand)  • 19.5 lb (8.9 kg) in maximum configuration  • Handle in rear  • Support VESA mount (100mm)  • Removable feet	Kensington lock also locks chassis)  • Boot sequence control  • Boot without keyboard and mouse  • USB port disablement  • Chassis intrusion switch  EPEAT™ Gold rating  Climate Saver-compliant  ENERGY STAR® 5.2-compliant  TCO Certified Edge
Limited Warranty <sup>12</sup>	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades <sup>22</sup> available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

See footnotes for important warranty information

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(G-MTGB1-5) February 2013





Lenovo ThinkCentre M77 Small and Tower



Lenovo ThinkCentre M77 Tower with Lenovo ThinkVision monitor





Lenovo ThinkCentre M77 Small



Lenovo ThinkCentre M77 Small with Lenovo ThinkVision monitor







Lenovo ThinkCentre M77 Tower

Lenovo ThinkCentre M77 Tower

Type-model	Slot x bay	Processor	GHz	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display- Port dongle	Chassis intr switch	PS/2 port	Floor stand	ENERGY STAR 5.2	Global (G GMP (P)	) Win7 preload
1997-A1G	4x3	Athlon II X2 B24	3.0	4GBx1	320G 7200	DVD±RW	None	HD 4250	None	None	None	Stand	ES5.2	GΡ	Pro 32
1997-B1G	4x3	Phenom II X2 B57	3.2	4GBx1	500G 7200	<b>DVD±RW</b>	None	HD 4250	None	None	None	Stand	ES5.2	GΡ	Pro 64

- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
   Microsoft Office 2010 Product Key Ready (O10PKR)

Desitionic :	Main shape and an also state little and an an an and the	Disclouded encycling assets
Positioning Processor	Mainstream enterprise stability and manageability  AMD Athlon™ II X2 Processor B24 with dual-core, integrated 1066MHz DDR3 memory controller, and 2MB L2 cache (1MB per core)  AMD Phenom™ II X2 Processor B57 with dual-core, integrated 1066MHz DDR3 memory controller, 1MB L2 cache (512KB per core), and 6MB shared L3 cache	Preloaded operating system  Some: Genuine Windows® 7 Professional 32  Some: Genuine Windows 7 Professional 64  Preloaded applications (only some listed)
Implementation	Processor in Socket AM3+	ThinkVantage® Product Recovery
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	ThinkVantage System Update
Graphics	ATI™ Radeon™ HD 4250, integrated in chipset, uses main memory, one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10.1, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with opt dual-head ATI Radeon discrete graphics adapter; <i>Maximum resolution:</i> 2560x1440 (VGA) @ 75Hz; 2560x1600 (DisplayPort) @ 60Hz	ThinkVantage Power Manager     ThinkVantage Toolbox     Norton™ Internet Security 2011     (30 days of virus definitions)     Adobe® Reader®
DP dongle	None	Skype™ for Windows     Windows Live™ Essentials
Disk Optical SATA controller SATA cables eSATA port Media reader	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar None None	Microsoft® Office 2010 preloaded; purchase product key to activate     Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)
Chipset	AMD 980G Chipset	
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports Internal connector Audio Speaker IEEE 1394 Ethernet Modem Security chip	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Three USB 2.0 planar conn (1 used; two open for additional USB devices) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None One gigabit ethernet port, Broadcom® BCM5761, DASH 1.1 None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Floor Stand Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo System floor stand for vertical orientation 240 watts, autosensing, 85% PSU	
Machine Bay	Business black color; metal case  13.3" W X 14.5" D X 3.9" H  337mm W X 369mm D X 99mm H  16.5 lb (7.5 kg) in maximum configuration  Toolless cover flips up and tilts backward on rear hinges  Toolless disk and optical drive removal  Toolless adapter retention  Bay 1: 5.25", 1.6" high, access, std optical	
Day	Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader	Security
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1 Slot 4: Low Profile, 32-bit PCI 2.3	Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) Power-on password
	disk optical	<ul> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> </ul>
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

Type-model	Slot x bay	Processor	GHz	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay		Media reader	Graphics	Display- Port dongle	Chassis intr switcl	PS/2 h port	ENERGY STAR 5.2	Global (C GMP (P	G) Win7 ) preload
				-	320G 7200									_	Pro 32
1983-B1G	4x4	Phenom II X2 B57	3.2	4GBx1	500G 7200	None	DVD±RW	None	HD 4250	None	None	None	ES5.2	GΡ	Pro 64

- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
   Microsoft Office 2010 Product Key Ready (O10PKR)

Desitioning	Mainstrage antonying stability and managaghility	Droloaded energting eveters
Positioning Processor	Mainstream enterprise stability and manageability  AMD Athlon™ II X2 Processor B24 with dual-core,	Preloaded operating system Some: Genuine Windows® 7
1 10000001	integrated 1066MHz DDR3 memory controller, and 2MB L2 cache (1MB per core)	Professional 32
	AMD Phenom™ II X2 Processor B57 with dual-core,	Some: Genuine Windows 7
	integrated 1066MHz DDR3 memory controller, 1MB L2 cache (512KB per core), and 6MB shared L3 cache	Professional 64
Implementation	Processor in Socket AM3+	Preloaded applications (only some listed)
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	ThinkVantage® Product Recovery     ThinkVantage System Update
Graphics	ATI™ Radeon™ HD 4250, integrated in chipset, uses main memory,	ThinkVaritage Gystern Opdate     ThinkVaritage Power Manager
	one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10.1,	ThinkVantage Toolbox
	ATI Avivo <sup>™</sup> , SurroundView <sup>™</sup> , supports dual independent display;	Norton™ Internet Security 2011     (30 days of virus definitions)
	supports up to 4 monitors with opt dual-head ATI Radeon discrete graphics adapter; Maximum resolution: 2560x1440 (VGA)@75Hz; 2560x1600 (DisplayPort)@60Hz	Adobe Reader
DP dongle	None	<ul> <li>Skype™ for Windows</li> </ul>
Disk	SATA 6.0Gb/s 7200 rpm	<ul> <li>Windows Live™ Essentials</li> <li>Microsoft® Office 2010 preloaded;</li> </ul>
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	purchase product key to activate
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1	Corel <sup>®</sup> Burn.Now <sup>™</sup> (DVD±RW)
SATA cables	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar	<ul> <li>Corel DVD MovieFactory<sup>®</sup> (DVD±RW)</li> </ul>
eSATA port	None	
Media reader	None	-
Chipset	AMD 980G Chipset	-
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2),	
near ports	ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
Internal connector	Three USB 2.0 planar conn (1 used; two open for additional USB devices)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None One girchit athernat part Breadcom® BCM5761 DASUL1.1	
Ethernet Modem	One gigabit ethernet port, Broadcom® BCM5761, DASH 1.1 None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	-
Mouse	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosensing, 85% PSU	
Machine	Business black color; metal case	
	● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H	
	• 24.2 lb (11.0 kg) in maximum configuration	
	Handle on top front	
	Power button on top handle     Taallage aggregately	
	<ul> <li>Toolless cover removal</li> <li>Tilted front I/O for easy access</li> </ul>	
	Toolless disk, optical drive removal	
_	Toolless adapter retention	
Bay	Bay 1: 5.25", 1.6" high, access, std optical	Security  • Security chip (see information on left)
	Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader	Security chip (see information on left)     One lock to secure both cover and
	Bay 4: 3.5", 1" high, no access, std disk	entire system to fixed object:
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max)	-Padlock loop (in rear for opt padlock)
	Slot 2: half-length, full-height, PCle 2.0 x1	-Security slot (in rear for optional Kensington® MicroSaver® cable)
	Slot 3: half-length, full-height, PCle 2.0 x1 Slot 4: half-length, full-height, 32-bit PCl 2.3	Power-on password
	Sist in tall to light, or one of the	Administrator password
		Hard disk password     Post assumes central
		Boot sequence control     Boot without keyboard and mouse
		Individual USB port disablement
		EPEAT™ Gold rating
		ENERGY STAR® 5.2-compliant
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and	GREENGUARD® certified RoHS-compliant
	national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	Supports ThinkVantage Technologies
	ior service disparch / service dodrades available	TOUDDOLES THILLY VALUE OF THE HELD HOUSE

# ThinkCentre<sub>®</sub>



Lenovo ThinkCentre M81 Small and Tower



Lenovo ThinkCentre M81 Tower with Lenovo ThinkVision monitor





Lenovo ThinkCentre M81 Small



with Lenovo ThinkVision monitor







Lenovo ThinkCentre M81 Tower

Lenovo ThinkCentre M81 Tower

# ThinkCentre® M81 Small (5049) - ES 5.0 - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Global Educ	Win7 preload
5049-D7G	4x3	Core i3-2100	2GBx2 1333MHz	500G 7200	DVD±RW	Intel HD	None	None	ES50	N N	Pro 64
5049-A1G	4x3	Core i5-2400	2GBx2 1333MHz	500G 7200	DVD±RW	Intel HD	Switch	None	ES50	N N	Pro 64

- These models have a 3-year limited warranty
  These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

B 22 1	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Duele eded on southern contains
Positioning Processor	Mainstream enterprise stability and manageability  Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache),	Preloaded operating system Genuine Windows® 7 Professional 64 Preloaded applications (only some listed)
Local consentation	Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	<ul> <li>Rescue and Recovery™</li> <li>ThinkVantage® System Update</li> </ul>
Implementation	Processor in LGA1155 socket	ThinkVantage Power Manager     ThinkVantage Toolbox
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	ThinkVantage Toolbox     Norton™ Internet Security 2011
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort™, supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz	(30 days of virus definitions)  • Adobe® Reader®  • Skype™ for Windows
DP dongle	None	Microsoft® Office 2010 preloaded;
Disk	SATA 6.0Gb/s 7200 rpm	purchase product key to activate
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Corel® Burn.Now™ (DVD±RW)     Corel DVD Movie Feeters® (DVD + BW)
SATA controller SATA cables	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector on planar	■ Corel DVD MovieFactory® (DVD±RW)
eSATA port	None	
Media reader	None	
Chipset	Intel Q65 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports Rear ports Rear audio ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	
Floor Stand	None	
Power supply	240 watts, autosensing, 85% PSU	
Machine	<ul> <li>Business black color; metal case</li> <li>13.3" W X 14.5" D X 3.9" H</li> <li>337mm W X 369mm D X 99mm H</li> <li>16.5 lb (7.5 kg) in maximum configuration</li> <li>Toolless cover flips up and tilts backward on rear hinges</li> <li>Toolless disk and optical drive removal</li> <li>Toolless adapter retention</li> </ul>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk	Security  Security chip (see information on left) Security slot (in rear for attachment of
Slot	Bay 3: 3.5", .5" high, access, opt reader Slot 1: Low Profile, PCI Express 2.0 x16	optional Kensington® MicroSaver
	Slot 2: Low Profile, PCIe 2.0 x1	cable)
	Slot 3: Low Profile, 32-bit PCI 2.3	Power-on password     Hard disk password
	Slot 4: Low Profile, 32-bit PCI 2.3	Boot sequence control
	disk optical optical	Boot without keyboard and mouse
		Serial port I/O control     Individual USB port disablement
		Some: Chassis intrusion switch
		EPEAT™ Gold rating
Limited Morrent	2 years limited engite carving 9 am 5 pm Mon. Eri coverage evaluating public and	ENERGY STAR® 5.Ŏ-compliant GREENGUARD® certified
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day	RoHS-compliant
	for service dispatch / service upgrades available	Supports ThinkVantage Technologies

# ThinkCentre® M81 Small (5049) - ES 5.0 - II - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Media reader	Floor stand	ENERGY STAR 5.0	Global Educ	Win7 preload
5049-E5G	4x3	Core i3-2100	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	Switch	Media	None	ES50	NN	Pro 64
5049-E6G	4x3	Pentium G840	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	Switch	None	Stand	ES50	NN	Pro 32
5049-F8G	4x3	Core i3-2120	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	Switch	Media	None	ES50	NN	Pro 64
5049-G8G	4x3	Core i3-2120	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	Switch	None	None	ES50	NN	Pro 64
5049-H5G	4x3	Core i3-2120	2GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	Switch	Media	None	ES50	NN	Pro 64
5049-K1G	4x3	Core i3-2120	4GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	None	None	None	ES50	NN	Pro 64

- These models have a 3-year limited warranty
  These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Mainstroom anterprise stability and manageability	Preloaded operating system
Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® G840 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64  Preloaded applications²0 (only some listed)  ● Rescue and Recovery™ ● ThinkVantage® System Update
Implementation		ThinkVantage Power Manager     ThinkVantage Toolbox
Memory Graphics	16GB max, <b>UDIMM</b> , <b>PC3-10600 1333MHz DDR3</b> , four 240-pin DIMM sockets  Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort™, supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA) @ 60Hz	<ul> <li>Norton™ Internet Security 2011 (30 days of virus definitions)</li> <li>Adobe Reader®</li> <li>Skype™ for Windows</li> </ul>
DP dongle	None	Microsoft® Office 2010 preloaded;
Disk Optical SATA controller SATA cables eSATA port Media reader Chipset	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector on planar None Some: 25-in-1 media reader, internal USB 2.0, slim Intel Q65 Express Chipset	purchase product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)
	Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	-
Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® None None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Floor Stand Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo Some: System floor stand for vertical orientation 240 watts, autosensing, 85% PSU	
Machine	<ul> <li>Business black color; metal case</li> <li>13.3" W X 14.5" D X 3.9" H</li> <li>337mm W X 369mm D X 99mm H</li> <li>16.5 lb (7.5 kg) in maximum configuration</li> <li>Toolless cover flips up and tilts backward on rear hinges</li> <li>Toolless disk and optical drive removal</li> <li>Toolless adapter retention</li> </ul>	Security  Security (see information on left) Security slot (in rear for attachment of
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader	optional Kensington® MicroSaver® cable)  • Power-on password
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3	Hard disk password     Boot sequence control     Boot without keyboard and mouse     Serial port I/O control     Individual USB port disablement     Some: Chassis intrusion switch  EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Limited Warranty <sup>1</sup>	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Global (G) GMP (P)	Win7 preload
0385-A1G	4x3	Core i5-2400	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	None	Stand	ES50	GP	Pro 32

- This model is part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
  This system is Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Mainstream enterprise stability and manageability	Preloaded operating system
Processor	Intel® Core™ i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache),	Genuine Windows® 7
	Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Professional 32
Implementation	Processor in LGA1155 socket	Preloaded applications (only some listed)
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	Rescue and Recovery     This Nortes ® System Undete
Graphics  DP dongle	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort™, supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz  None	<ul> <li>ThinkVantage® System Update</li> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011</li> </ul>
Disk	SATA 6.0Gb/s 7200 rpm	(30 days of virus definitions)  • Adobe® Reader®
Optical SATA controller SATA cables eSATA port	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector on planar None	Skype™ for Windows     Microsoft® Office 2010 preloaded; purchase product key to activate     Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)
Media reader	None	
Chipset	Intel Q65 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	-
Audio Speaker Ethernet	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	None	
Modem Security chip	None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Floor Stand Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo System floor stand for vertical orientation 240 watts, autosensing, 85% PSU	-
Machine	Business black color; metal case 13.3" W X 14.5" D X 3.9" H 337mm W X 369mm D X 99mm H 16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear hinges Toolless disk and optical drive removal Toolless adapter retention	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader	
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3	Security Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
	disk optical	Power-on password     Hard disk password     Boot sequence control     Boot without keyboard and mouse     Serial port I/O control     Individual USB port disablement  EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Global (G) GMP (P)	Win7 preload
0385-A2G	4x3	Core i5-2400	4GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	None	Stand	ES50	GP	Pro 64

- This model is part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
  This system is Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Mainstream enterprise stability and manageability	Preloaded operating system
Processor	Intel® Core™ i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller	Genuine Windows® 7 Professional 64
Implementation	Processor in LGA1155 socket	Preloaded applications <sup>20</sup> (only some
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	- listed)
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA)@60Hz	<ul> <li>Rescue and Recovery™</li> <li>ThinkVantage® System Update</li> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Toolbox</li> </ul>
DP dongle	None	Norton™ Internet Security 2011
Disk	SATA 6.0Gb/s 7200 rpm	(30 days of virus definitions)
Optical SATA controller	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	<ul> <li>Adobe Reader<sup>®</sup></li> <li>Skype<sup>™</sup> for Windows</li> </ul>
SATA controller SATA cables	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector on planar	Microsoft® Office 2010 preloaded; purchase product key to activate     Corel® Burn.Now™ (DVD±RW)
eSATA port	None	Corel DVD MovieFactory® (DVD±RW)
Media reader	None	=
Chipset	Intel Q65 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse Floor Stand	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo System floor stand for vertical orientation	
Floor Stand Power supply	240 watts, autosensing, 85% PSU	
Machine	Business black color; metal case	_
Macrinie	• 13.3" W X 14.5" D X 3.9" H	
	• 337mm W X 369mm D X 99mm H	
	<ul> <li>16.5 lb (7.5 kg) in maximum configuration</li> <li>Toolless cover flips up and tilts backward on rear hinges</li> </ul>	
	Toolless disk and optical drive removal	
_	Toolless adapter retention	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader	
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3	Security  Security chip (see information on left) Security slot (in rear for attachment of
	Side it Edit i Tollio, de bie i Oi e.o	optional Kensington® MicroSaver®
		cable) • Power-on password
	Affair Canadi - 1	Hard disk password
	disk optical	Boot sequence control
		Boot without keyboard and mouse     Serial port I/O control
		Individual USB port disablement
		EPEAT™ Gold rating
		ENERGY STAR® 5.0-compliant
Limited Warranty <sup>1</sup>	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and	GREENGUARD® certified
	national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	
	ioi service dispatcit / service apgrades available	Supports ThinkVantage Technologies

# ThinkCentre® M81 Tower (5048) - ES 5.0 - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.0	Global Educ	Win7 preload
5048-D7G	4x4	Core i3-2100	2GBx2 1333MHz	500G 7200	None	DVD±RW	Intel HD	Switch	ES50	ΝN	Pro 64
5048-D8G	4x4	Core i3-2100	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	Switch	ES50	NN	Pro 64
5048-A1G	4x4	Core i5-2400	2GBx2 1333MHz	500G 7200	None	DVD±RW	Intel HD	Switch	ES50	ΝN	Pro 64

- These models have a 3-year limited warranty
- These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Mainstream enterprise stability and manageability	Preloaded operating system
Processor	Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics 2000,	Genuine Windows® 7
	integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Professional 64
	Intel Core i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache),	Preloaded applications (only some listed)
	Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Rescue and Recovery™  Third Year and Recovery ■ Rescue and Rescue and Recovery ■ Rescue and R
Implementation	Processor in LGA1155 socket	ThinkVantage® System Update     ThinkVantage Power Manager
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	ThinkVantage Toolbox
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA,	Norton™ Internet Security 2011
·	one DisplayPort™, supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz	(30 days of virus definitions)  • Adobe® Reader®  • Skype™ for Windows
DP dongle	None	Microsoft® Office 2010 preloaded;
Disk	SATA 6.0Gb/s 7200 rpm	purchase product key to activate
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset	Core DVD Movier actory (DVD±11VV)
SATA cables	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector on planar	
eSATA port	None	
Media reader	None	
Chipset	Intel Q65 Express Chipset	-
	Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)  Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosensing, 85% PSU	_
Machine	Business black color; metal case     GOUNTY 17 4" DIVIGORILL	
	● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H	
	• 24.2 lb (11.0 kg) in maximum configuration	
	Handle on top front	
	<ul> <li>Power button on top handle</li> <li>Toolless cover removal</li> </ul>	Coourity
	Tilted front I/O for easy access	Security  Security chip (see information on left)
	Toolless disk, ontical drive removal	One lock to secure both cover and
_	Toolless adapter retention	entire system to fixed object:
Bay	Bay 1: 5.25", 1.6" high, access, std optical	-Padlock loop (in rear for opt padlock) -Security slot (in rear for optional
	Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader	Kensington® MicroSaver® cable)
	Bay 4: 3.5", 1" high, no access, std disk	Power-on password
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max)	Hard disk password
	Slot 2: half-length, full-height, PCle 2.0 x1	Boot sequence control     Boot without keyboard and mouse
	Slot 3: half-length, full-height, 32-bit PCI 2.3	Boot without keyboard and mouse     Serial port I/O control
	Slot 4: half-length, full-height, 32-bit PCI 2.3	
		• Individual USB port disablement
		Individual USB port disablement     Chassis intrusion switch
		Chassis intrusion switch     EPEAT™ Gold rating
		Chassis intrusion switch     EPEAT™ Gold rating     ENERGY STAR® 5.0-compliant
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day	Chassis intrusion switch     EPEAT™ Gold rating

# ThinkCentre® M81 Tower (5048) - ES 5.0 - II - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	Media reader	ENERGY STAR 5.0	Global Educ	Win7 preload
5048-E2G	4x5	Core i3-2100	2GBx1 1333MHz	320G 7200	Bay	DVD±RW	Intel HD	Switch	Media	ES50	ΝN	Pro 64
5048-E3G	4x4	Pentium G620	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	Switch	None	ES50	ΝN	Pro 32
5048-F8G	4x5	Core i3-2120	2GBx1 1333MHz	320G 7200	Bay	DVD±RW	Intel HD	Switch	None	ES50	NN	Pro 64
5048-G9G	4x4	Core i3-2120	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	Switch	None	ES50	NN	Pro 64
5048-H4G	4x5	Core i3-2120	2GBx1 1333MHz	500G 7200	Bay	DVD±RW	Intel HD	Switch	Media	ES50	ΝN	Pro 64

- These models have a 3-year limited warranty
  These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Docitioning	Mainstraam antaunrias atability and managashility	Dual and ad a marreting avertage
Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.6GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	Preloaded operating system  Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64  Preloaded applications²⁰ (only some listed)  ■ Rescue and Recovery™ ■ ThinkVantage® System Update ■ ThinkVantage Power Manager
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	ThinkVantage Toolbox
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA)@60Hz None	<ul> <li>Norton™ Internet Security 2011 (30 days of virus definitions)</li> <li>Adobe Reader®</li> <li>Skype™ for Windows</li> </ul>
DP dongle		<ul> <li>Microsoft<sup>®</sup> Office 2010 preloaded;</li> </ul>
Disk Optical SATA controller SATA cables eSATA port Media reader	SATA 6.0Gb/s 7200 rpm  Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive  Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset  Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector on planar  None  Some: 25-in-1 media reader, internal USB 2.0	purchase product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)
Chipset	Intel Q65 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® None None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing, 85% PSU	
Machine	Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Handle on top front Power button on top handle Toolless cover removal Tilted front I/O for easy access Toolless disk, optical drive removal Toolless adapter retention	Security  • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable)
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk (some models)	Power-on password     Hard disk password     Boot sequence control     Boot without keyboard and mouse     Serial port I/O control
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	Individual USB port disablement     Chassis intrusion switch  EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Limited Warranty <sup>1</sup>	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.0	Global (G) GMP (P)	Win7 preload
1730-A1G	4x4	Core i5-2400	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	None	ES50	GР	Pro 32

- This model is part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
  This system is Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Mainstream enterprise stability and manageability	Preloaded operating system
Processor	Intel® Core™ i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache),	Genuine Windows® 7
	Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Professional 32
Implementation	Processor in LGA1155 socket	Preloaded applications (only some listed)
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	■ Rescue and Recovery <sup>™</sup>
Graphics  DP dongle	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort™, supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz  None	<ul> <li>ThinkVantage® System Update</li> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011</li> </ul>
Disk	SATA 6.0Gb/s 7200 rpm	(30 days of virus definitions)  • Adobe® Reader®
Optical SATA controller SATA cables eSATA port Media reader	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector on planar None None	Skype™ for Windows     Microsoft® Office 2010 preloaded; purchase product key to activate     Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)
Chipset	Intel Q65 Express Chipset	-
	Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® None None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosensing, 85% PSU	
Machine	Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Handle on top front Power button on top handle Toolless cover removal Tilted front I/O for easy access Toolless disk, optical drive removal Toolless adapter retention	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk	Security     Security chip (see information on left)     One lock to secure both cover and entire system to fixed object:
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	-Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement  EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified ROHS-compliant Supports ThinkVantage Technologies

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch		Global (G) GMP (P)	Win7 preload
1730-A2G	4x4	Core i5-2400	4GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	None	ES50	GΡ	Pro 64

- This model is part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
  This system is Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Mainstream enterprise stability and manageability	Preloaded operating system
Processor	Intel® Core™ i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller	Genuine Windows® 7 Professional 64
Implementation	Processor in LGA1155 socket	Preloaded applications (only some listed)
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	Rescue and Recovery™  Third \( \text{\text{Act at a se}} \)  Solution \( \text{\ti}\text{\texi{\text{\tex{\tex
Graphics  DP dongle	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort <sup>™</sup> , supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @ 60Hz None	<ul> <li>ThinkVantage® System Update</li> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011</li> <li>(30 days of virus definitions)</li> </ul>
Disk	SATA 6.0Gb/s 7200 rpm	Adobe® Reader®
Optical SATA controller SATA cables eSATA port	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector on planar None	<ul> <li>Skype™ for Windows</li> <li>Microsoft® Office 2010 preloaded; purchase product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Media reader	None	
Chipset	Intel Q65 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® None None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing, 85% PSU	
Machine	Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Handle on top front Power button on top handle Toolless cover removal Tilted front I/O for easy access Toolless disk, optical drive removal Toolless adapter retention	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk	Security     Security chip (see information on left)     One lock to secure both cover and entire system to fixed object:
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	-Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement  EPEAT™ Gold rating
Limited Warranty <sup>1</sup>	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	ENERGY STAR® 5.Ŏ-compliant GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies







Lenovo ThinkCentre M90z with Frame Stand

Lenovo ThinkCentre M90z with Height Adjustable Stand Option 57Y4351 (57Y4351 is not compatible to Multi-touch models)







Handle



Type-model	Proc- essor	GHz	Memory	Camera Widescreen (mega- display pixel)	SATA	Chassis intr switch			DisplayPort dongle	PCIe Mini Card 802.11	Stand type	Intel vPro	Global Educ	Win7 preload
				23.0" Full HD 2.0M 23.0" Full HD 2.0M			Blue Blue	Media Media		Intel 1000 Intel 1000		vPro vPro	None None	Pro 32 Pro 32
5205-B6G 5205-E3G	i5-650 i5-650	3.20 3.20	2GBx1 2GBx1	23.0" Full HD 2.0M 23.0" Full HD 23.0" Full HD 2.0M	320GE 250GE	Switch Switch	Blue	Media Media	DP-to-DVI-D DP-to-DVI-D	Intel 1000	Frame Lift	vPro vPro vPro	None None None	Pro 32 Pro 32 Pro 32

- Best space saving solution & excellent cable management
   These models have a 3-year limited warranty<sup>1</sup>
   These systems are Microsoft<sup>®</sup> Office 2010 Product Key Ready (O10PKR)

SATA disk SATA DVD±RW eSATA port Diskette drive Single Slot SD Media Card Reader  Chipset  Intel Q57 Express Chipset Platform Controller Hub (PCH) for SATA, ethernet, and USB  Ports  Rear: four USB 2.0, ethernet (RJ-45), DisplayPort, VGA-in connector Side: two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)  PCIe Mini Card Intel 1000  PCI Express Mini Card slot Intel Centrino® Wireless¹, PCIe Half Mini Card, Intel Centrino® Wireless¹, PCIe Half Mini Card, Intel Centrino® Wireless, Broadcom® BCM2070, LED indicator  Publication, physical only long of Genuine Windows® 7 Professional 32  Preloaded applications⁵ (only some listed)  **Rescue and Recovery™ **ThinkVantage System Update*  ThinkVantage Power Manager  ThinkVantage Power Manager  ThinkVantage Toolbox  Lenovo Message Center Plus  Norton™ Internet Security 2011 (30 days of virus definitions)  **Microsoft Office 2010 preloaded; purchase product key to activate  Corel® DVD MovieFactory® (DVD±RW)  Security  Intel Adtive Management Technology 6.0 (Intel AMT 6.0)  None  None  Ports  Rear: four USB 2.0, ethernet (RJ-45), DisplayPort, VGA-in connector Side: two USB 2.0, microphone (stereo, 3.5mm)  One PCI Express Mini Card slot Some: 11b/g/n wireless¹, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2  Some: Bluetooth 2.1 wireless, Broadcom® BCM2070, LED indicator One gigabit ethernet port, Intel 82578DM High Definition (HD) Audio, Realtek® ALC269 codec  Two internal speakers (2watt x 2)  None  Intel Adtive Management Technology 6.0 (Intel AMT 6.0) None  None  Security chip (see information left)  Security slot (in rear for attachment of									
Memory  2GB std, 8GB max*, PC3-10600 1333MHz DDR3, dual-channel capable, two 204-pins SOIDMM sockets (notebook)  Intel HD Graphics in processor, HDCP, DirectX** 10, uses main memory (up to 765MB [26B models], 1759MB [4GB models], 1759MB [4	Processor	Intel® Core™ i5 Processor i5-650 or i5-670 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache	All:  Business blace Handle in reae Support VES	r A mount (100mm)					
Intel HD Graphics in processor, HDCP, DirectX* 10, uses main memory (up to 765MB (2GB models), 1759MB (4GB models), one DisplayPort™ connector, supports dual independent display connector, anti-glare, CCFL backlight, 250 nils, 16:9 aspect ratio, 1000:1 dynamic contrast ratio, work as standalone monitor via VGA-in connector   Multi-louch Camera   Variantic Contrast ratio, work as standalone monitor via VGA-in connector   Variantic Contrast ratio, work as standalone monitor via VGA-in connector   Variantic Contrast ratio, work as standalone monitor via VGA-in connector   Variantic Contrast ratio, work as standalone monitor via VGA-in connector   Variantic Contrast ratio, work as standalone monitor via VGA-in connector   Variantic Varia	Memory		Model(s) with F	Model(s) with Frame stand:  22" W X 4.29" D X 17.4" H  560mm W X 109mm D X 443mm H  23.6 lb (10.7 kg) in maximum configuration  Model(s) with Lift stand:  Height Adjustable  22" W X 9.84" D X 17.4" H  560mm W X 250mm D X 443mm H					
Multi-touch Camera  None Some: Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, ED indicator, physical on/off switch  SATA disk SATA disk SATA DVD±RW SATA DVD±RW SATA DVD±RW SATA port Disketted trive Single Slot SD Media Card Reader  Chipset Intel GS7 Express Chipset Platform Controller Hub (PCH) for SATA, ethernet, and USB  Ports Rear: four USB 2.0, ethernet (RJ-45), DisplayPort, VGA-in connector side: two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)  PCIe Mini Card Intel 1000 Con PCI Express Mini Card soll, intel Centrino® Wireless® Pool, 12 twiceless. Platform Audio Speaker Audio Au	DP dongle	uses main memory (up to 765MB [2GB models], 1759MB [4GB model]), one DisplayPort™ connector, supports dual independent display Some: DisplayPort to Single-link DVI-D Cable 23.0" (584.2mm) Full HD 1080p (1920x1080) TFT color, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio,	• 560mm W X • 23.6 lb (10.7 Model(s) with L • Height Adjust • 22" W X 9.84 • 560mm W X 2 • 29.3 lb (13.3						
SATA DVD±RW eSATA port Diskette drive Media reader Chipset Intel Q57 Express Chipset Platform Controller Hub (PCH) for SATA, ethernet, and USB  Ports Rear: four USB 2.0, ethernet (RJ-45), DisplayPort, VGA-in connector Side: two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) PCIe Mini Card Intel 1000 PCIE Mini Card Some: 11b/g/n wireless No 1000, 1x2 Bluetooth™ Some: Bluetooth 2.1 wireless, Broadcom® BCM2070, LED indicator Ethernet Audio Speaker Ethernet One gigabit ethernet port, Intel 82578DM None Intel AMT Modem Sceurity chip Security chip Freferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo Power supply Limited Warranty Imited Warranty Imited Marranty Imited Marranty Imited Marranty Imited Marranty Imited Warranty Imited Marranty Imited Warranty Imited Province Active Active Active Use Imited Image Individual Use Imited Individual Use Image Individual Use Image Individual Use Individual Individual Use Individual Individual Use Individual Individual Individual Individual Indi		None Some: Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo,	All: Bay ① 3.5", 1						
ThinkVantage System Update  Ports  Rear: four USB 2.0, ethernet (RJ-45), DisplayPort, VGA-in connector Side: two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)  PCle Mini Card Intel 1000  PCle Mini Card Intel 1000  PCle Mini Card Intel 1000  Some: 11b/g/n wireless¹³, PCle Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2  Bluetooth™  Some: Bluetooth 2.1 wireless, Broadcom® BCM2070, LED indicator One gigabit ethernet port, Intel 82578DM Audio  Speaker  IleEE 1394  Intel Adtive Management Technology 6.0 (Intel AMT 6.0)  Modem  Security chip  TCG 1.2-compliant  Keyboard  Mouse  Power supply  Dimited Warranty  Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo® logo Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 150 watts, autosensing, 85% PSU, 80 PLUS® Bronze qualified and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades²² available  Intel RATM  Modem  Security  Security chip (see information left)  Security chip (see info	SATA DVD±RW eSATA port Diskette drive	DVD burner, SATA 1.5Gb/s, 12.7mm high None None		Genuine Windows® 7 Professional 32 Preloaded applications <sup>5</sup> (only some					
Side: two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)  PCIe Mini Card Intel 1000  Bluetooth™ Some: 11b/g/n wireless¹³, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2  Some: Bluetooth 2.1 wireless, Broadcom® BCM2070, LED indicator One gigabit ethernet port, Intel 82578DM  Audio Speaker IEEE 1394  Intel AMT Modem Security chip Security chip TCG 1.2-compliant  Keyboard Mouse Power supply  Limited Warranty  Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Dottical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Toy internal speaker (2 watt x 2)  Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Dottical Warranty  Limited Warranty  Toy internal speakers (2 watt x 2)  Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo  Optical Wheel Mouse (USB		Intel Q57 Express Chipset		<ul> <li>Rescue and Recovery™</li> <li>ThinkVantage System Update</li> </ul>					
IÈEE 1394 Intel AMT Intel AMT Modem Security chip Modem Security chip Security Security Security Security Security Security Security Security chip Security Security Security Security Security chip Security Security Security Security Security chip Security Security chip Security Security chip Security Security Security chip Security Security Security Security Security Security Security chip Security Securit	PCIe Mini Card Intel 1000 Bluetooth™ Ethernet Audio	Side: two USB 2.0, microphone (stereo, 3.5mm), headphone (stereone PCI Express Mini Card slot Some: 11b/g/n wireless <sup>13</sup> , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 Some: Bluetooth 2.1 wireless, Broadcom® BCM2070, LED indicate One gigabit ethernet port, Intel 82578DM High Definition (HD) Audio, Realtek® ALC269 codec	eo, 3.5mm)	ThinkVantage Toolbox     Lenovo Message Center Plus     Norton™ Internet Security 2011 (30 days of virus definitions)     Microsoft Office 2010 preloaded;					
Modem Security chip  None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant  Keyboard Mouse Power supply  Limited Warranty  Pagers, Ilmited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades <sup>22</sup> available  None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant  Freferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 150 watts, autosensing, 85% PSU, 80 PLUS® Bronze qualified  3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades <sup>22</sup> available  ■ Security slot (in rear for attachment of optional Kensington lock also locks chassis)  ■ Boot without keyboard, mouse ■ Individual USB port disablement ■ Chassis intrusion switch  Supports ThinkVantage® technologies  ■ EPEAT™ Gold rating ■ ENERGY STAR® 5.0-compliant ■ TCO Certified Edge ■ GREENGUARD® certified	IEEE 1394	None		Security					
Mouse Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 150 watts, autosensing, 85% PSU, 80 PLUS® Bronze qualified  2-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades²²² available  ■ Boot without keyboard, mouse ■ Individual USB port disablement ■ Chassis intrusion switch  Supports ThinkVantage® technologies  ■ EPEAT™ Gold rating ■ ENERGY STAR® 5.0-compliant ■ TCO Certified Edge ■ GREENGUARD® certified	Modem	None STMicroelectronics ST19NP18 Trusted Platform Module (TPM),		Securitý sloť (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)					
Limited Warranty  3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades <sup>22</sup> available  • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • TCO Certified Edge • GREENGUARD® certified	Mouse Power supply	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 150 watts, autosensing, 85% PSU, 80 PLUS® Bronze qualified		Boot without keyboard, mouse     Individual USB port disablement					
EPEAT M Gold rating     ENERGY STAR® 5.0-compliant     TCO Certified Edge     GREENGUARD® certified	Limited Warranty	• • •	0 1	Supports ThinkVantage® technologies					
		business day for service dispatch / service upgrades <sup>22</sup> available		<ul> <li>ENERGY STAR® 5.Ŏ-compliant</li> <li>TCO Certified Edge</li> <li>GREENGUARD® certified</li> </ul>					

Type-model	Proc- essor	GHz	Memory	Widescreen display	Camera (mega- pixel)	SATA disk	Chassis intr switch	Blue- tooth	PCle Mini Card 802.11	Media reader	Stand type	Intel vPro	Global (G) GMP (P)	Win7 preload
2471-A1G	i5-650	3.20	2GBx1	23.0" Full HD	2.0M	320GB <sup>2</sup>	Switch	None	None	Media	Lift	vPro	GΡ	Pro 32

- Best space saving solution & excellent cable management
   This model is part of the Global Models Plus (GMP) program with limited onsite service<sup>3</sup> 3-year limited warranty
   This system is Microsoft<sup>®</sup> Office 2010 Product Key Ready (O10PKR)

Positioning Processor	All-In-One PC for the enterprise Intel® Core™ Processor i5-650 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket	ack color ear SA mount (100mm) ick cover, disk, optical drive, memory remova					
Memory	2GB std, 8GB max <sup>8</sup> , PC3-10600 1333MHz DDR3, dual-channel capable, two 204-pin SODIMM sockets (notebook)	Lift stand: stable 14" D X 17.4" H					
Graphics  DP dongle Widescreen	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB), one DisplayPort™ connector, supports dual independent display None 23.0" (584.2mm) Full HD 1080p (1920x1080) TFT color, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio,	250mm D X 443mm H kg) in maximum configuration  1" high, no access, std disk (desktop) .5" high, access, std optical (notebook)					
Multi-touch Camera	1000:1 dynamic contrast ratio, work as standalone monitor via VGA-in connector None Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off		Preloaded operating system <sup>20</sup> Genuine Windows® 7 Professional 32 Preloaded applications <sup>5</sup> (only some				
SATA disk SATA DVD±RW eSATA port Diskette drive Media reader	<b>320GB</b> , SATA 3.0Gb/s, 3.5" wide, 7200 rpm DVD burner, SATA 1.5Gb/s, 12.7mm high None None Single Slot SD Media Card Reader		listed)  ■ Rescue and Recovery™  ■ ThinkVantage System Update  ■ ThinkVantage Power Manager  ■ ThinkVantage Toolbox				
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for SATA, ethernet, and USB		<ul> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security 2011</li> <li>(30 days of virus definitions)</li> </ul>				
Ports  PCIe Mini Card Intel 1000 Bluetooth™ Ethernet Audio Speaker	Rear: four USB 2.0, ethernet (RJ-45), DisplayPort, VGA-in connect Side: two USB 2.0, microphone (stereo, 3.5mm), headphone (stereon PCI Express Mini Card slot None None One gigabit ethernet port, Intel 82578DM High Definition (HD) Audio, Realtek® ALC269 codec Two internal speakers (2watt x 2)		Àdobe® Reader®     Adobe Flash® Player     Skype™ for Windows     Microsoft Office 2010 preloaded; purchase product key to activate     Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)				
IEEE 1394 Intel AMT Modem Security chip	None Intel Active Management Technology 6.0 (Intel AMT 6.0) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant		Security  • Security chip (see information left)  • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)				
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Len- Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 150 watts, autosensing, 85% PSU, 80 PLUS® Bronze qualified	ovo® logo )	Boot sequence control     Boot without keyboard, mouse     Individual USB port disablement				
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage ex and national holidays. Calls received after 3 pm will require an addt business day for service dispatch / service upgrades <sup>22</sup> available	0 1	Chassis intrusion switch Supports ThinkVantage® technologies  EPEAT™ Gold rating ENERGY STAR® 5.0-compliant TCO Certified Edge GREENGUARD® certified ROHS-compliant				

	Comova	Cla					
Type-model essoi	Widescreen (mega- Integrated SATA Chassis Blue- Min	Cle Card Media DisplayP 2.11 reader dongle					
0800-A6G i5-670 0800-D3G i5-660 0800-F6G i5-650	3.33 2GBx1 23.0" Full HD 2.0M Intel HD 320GB Switch Blue Inte	1000 Media 1000 Media DP-to-DV 1000 Media	vPro None Pro 'I-D vPro None Pro vPro None Pro	ro 32			
	<ul> <li>Best space saving solution &amp; excellent cable management</li> <li>These models have a 3-year limited warranty</li> <li>These systems are Microsoft<sup>®</sup> Office 2010 Product Key Ready (O10PI</li> </ul>	(R)					
Positioning Processor	With dual-core, Intel 64, Hyper-I freading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in I GA1156 socket  • 22" W • 560mm • 25.3 lb • Handle	ss black color X 4.57" D X 17.4" H n W X 116mm D X 443m (11.5 kg) in maximum c	onfiguration				
Memory		ss back cover, disk, optic		ıoval			
Graphics	uses main memory (up to 765MB [2GB models], 1759MB [4GB model]), one DisplayPort™ connector,	.5", 1" high, no acces lim, .5" high, access,	ss, std disk (desktop) std optical (noteboo	ok)			
DP dongle Widescreen	supports dual independent display  Some: DisplayPort to Single-link DVI-D Cable  23.0" (584.2mm) Full HD 1080p (1920x1080) TFT color, anti-glare,  CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio,  work as standalone monitor via VGA-in connector						
Multi-touch Camera	Supports Multi-touch function Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical on/off switch						
SATA disk SATA DVD±RW eSATA port Diskette drive Media reader	<b>320GB</b> or <b>500GB</b> , SATA 3.0Gb/s, 3.5" wide, 7200 rpm DVD burner, SATA 1.5Gb/s, 12.7mm high None None Single Slot SD Media Card Reader						
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for SATA, ethernet, and USB	Some: Genuine	Preloaded operating system <sup>20</sup> Some: Genuine Windows® 7				
Ports  PCIe Mini Card Intel 1000  Bluetooth™ Ethernet Audio Speaker IEEE 1394 Intel AMT Modem Security chip	Rear: four USB 2.0, ethernet (RJ-45), DisplayPort, VGA-in connector Side: two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) One PCI Express Mini Card slot 11b/g/n wireless¹3, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 Bluetooth 2.1 wireless, Broadcom® BCM2070, LED indicator One gigabit ethernet port, Intel 82578DM High Definition (HD) Audio, Realtek® ALC269 codec Two internal speakers (2watt x 2) None Intel Active Management Technology 6.0 (Intel AMT 6.0) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	Preloaded appli listed)  Rescue and Re ThinkVantage ThinkVantage ThinkVantage Lenovo Messa Norton™ Interr (30 days of viri Adobe® Reade	Windows 7 onal 64  cations⁵ (only some ecovery™ System Update Power Manager Toolbox ge Center Plus net Security 2011 us definitions)				
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB USB connector), 104-key, black, Lenovo® Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 150 watts, autosensing, 85% PSU, 80 PLUS® Bronze qualified	<ul> <li>Skype™ for Wi</li> <li>Microsoft Offic purchase prod</li> </ul>	ndows e 2010 preloaded; uct key to activate				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding p and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades <sup>22</sup> available	Security chip (so Security slot (ir optional Kensir Kensington loce Boot sequence Boot without keel Individual USB Some: Chassis	vieFactory® (DVD±RW  security  see information left)  n rear for attachment of a see information left)  n rear for attachment of a see information left)  n rear for attachment of a see information left)  see information left)  n rear for attachment of a see information left)  see information left)  n control  substitution switch  antage® technologies  rating  1 5.0-compliant  dge  1 certified	of able;			

Type-model	Proc- essor	GHz	Memory	Widescreen display	Camera (mega- pixel)	SATA disk	Chassis intr swite		PCIe Mini Card 802.11	Media reader	Intel vPro	Global (G) GMP (P)	Win7 preload
0852-A1G	5-650	3.20	2GBx1	23.0" Full HD	2.0M	320GB <sup>2</sup>	Switch	None	None	Media	vPro	G P	Pro 32
	• Th	nis mode	el is part of	olution & excelle the Global Mode soft® Office 2010	els Plus (0	GMP) prog	ram with li		e service³ 3	-year lin	nited wa	arranty	
Positioning Processor	Inte Inte Turl TXT DD	el® Core I 64, Hy oo Boos I, integra R3 mem	per-Thread t Technolog ated 1333M	essor i5-650 with ling Technology, gy, Virtualization IHz dual-channe ler, and 4MB cad	Technoloç I			All-In-One Business 22" W X 560mm W 25.3 lb (1) Handle in Support V	1.57" D X 1 ' X 116mm I.5 kg) in m rear	D X 443 aximum	configu	ıration	
Memory				<b>C3-10600 1333</b> I two 204-pin SOI			-		oack cover,			ve, memory	remova
Graphics	use	s main r	nemory (u	processor, HDCF to 765MB), one dent display				Bay ① 3.5" Bay ② slim		no acc access		l disk (deskt I optical (not	
DP dongle Widescreen Multi-touch	Nor <b>23.</b> 0 CC wor	ie <b>)"</b> (584.2 FL backl k as sta	2mm) <b>Full</b> light, 250 n ndalone m	HD 1080p (1920 its, 16:9 aspect r onitor via VGA-in	atio, 1000	D:1 dynami		ratio,					
Camera	Car	nera on	ulti-touch f top of scre array with s	en, 2.0-megapix stereo, LED indic	el, fixed fo ator, phys	ocus, integ sical switch	rated on/off			77			
SATA disk SATA DVD±RV eSATA port Diskette drive Media reader	V DVI Nor Nor	D burner ne ne	r, SATA 1.5	, 3.5" wide, 7200 Gb/s, 12.7mm hi Card Reader									
Chipset	Inte	Q57 E	xpress Ch	ipset	A, etherne	et, and US	В		Preloa	ded one	rating	system <sup>20</sup>	
Platform Controller Hub (PCH) for SATA, ethernet, and USB  Ports  Rear: four USB 2.0, ethernet (RJ-45), DisplayPort, VGA-in connector Side: two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.0 one PCI Express Mini Card slot None  Bluetooth™ None  Ethernet One gigabit ethernet port, Intel 82578DM  Audio High Definition (HD) Audio, Realtek® ALC269 codec  Speaker Two internal speakers (2watt x 2)  IEEE 1394 Intel AMT None  Intel Active Management Technology 6.0 (Intel AMT 6.0)  None  Security chip STMicroelectronics ST19NP18 Trusted Platform Module (TPM),													
Keyboard Mouse Power supply Limited Warrar	Opt 150	ical Whe watts, a	eel Mouse autosensin	yboard (USB cor (USB connector) g, 85% PSU, 80 l e service, 8 am-	, 400 d́pi, PLUS® Br	black, Ler onze quali	novo logo fied		Skyp     Micro     purcl     Core	e™ for V psoft Off hase pro l® Burn.I	Vindows ice 201 duct ke Now™ (	s 0 preloaded by to activate DVD±RW)	è
Liiiiled Waiiai	and	nationa	l holidays.	Calls received af ce dispatch / serv	ter 3 pm	will require	an addtio		• Core	I DVD M		ctory® (DVD	±RW)
							Seculoption     Kens     Boot     Boot     Indiv	Security  Security chip (see information left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable Kensington lock also locks chassis) Boot sequence control Boot without keyboard, mouse Individual USB port disablement Chassis intrusion switch					
									Suppor	rts Think	Vantag	e® technolog	gies
									• ENER • TCO • GRE	AT™ Gol RGY STA Certified ENGUAF S-compli	AR® 5.0 I Edge RD® cer	-compliant	

# ThinkCentre.



Lenovo ThinkCentre M91/M91p Small and Tower



Lenovo ThinkCentre M91/M91p Eco Ultra Small with Lenovo ThinkVision monitor





Lenovo ThinkCentre M91/M91p Small



Lenovo ThinkCentre M91/M91p Small with Lenovo ThinkVision monitor





Lenovo ThinkCentre M91/M91p Tower



Lenovo ThinkCentre M91/M91p Tower with Lenovo ThinkVision monitor

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics		Chassis intr switch				Global Educ	Win7 preload	Ann date (mm/dd/yy)
2491-A3G	1x3 C	Core i3-2120	4GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	Media	Switch	None	ES50	None	ΝN	Pro 64	12/06/11
2491-A4G	1x3 F	Pentium G630	2GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	Media	Switch	None	ES50	None	ΝN	Pro 64	12/06/11

- The most powerful, stable, and manageable desktop with next generation Intel platform
  These small and medium business (SMB) models are part of the Western Europe TopSeller™ Program
- These models have a 3-year limited warranty
  These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Ultimate security, stability, and manageability for the enterprise	Preloaded operating system
Processor	Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache),	Genuine Windows® 7
	integrated Intel HD Graphics 2000, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology	Professional 64
	Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),	Preloaded applications (only some listed)
	integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Rescue and Recovery™
Implementation	Processor in LGA1155 socket	ThinkVantage System Update     ThinkVantage Power Manager
Memory	8GB max, PC3-10600 1333MHz DDR3, two 204-pin SODIMM sockets (notebook)	ThinkVantage Toolbox
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort <sup>™</sup> , supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @ 60Hz	<ul> <li>Norton™ Internet Security 2011         (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> </ul>
DP dongle	None	Microsoft® Office 2010 preloaded;
Disk Optical SATA controller SATA cables	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, one SATA 3.0Gb/s connector, and one eSATA connector on planar	purchase product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)
eSATA port	None	
Media reader	Single Slot SD Media Card Reader	_
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports Rear ports Rear audio ports Audio	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN® None	
Intel AMT Modem	None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Mouse Keyboard Floor Stand Power supply	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo® logo Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo None 150 watts AC/DC adapter, autosensing, 87% PSU	
Machine	Business black color; metal case	-
	<ul> <li>10.8" W X 9.4" D X 3.1" H</li> <li>275mm W X 238mm D X 79mm H</li> <li>9.2 lb (4.2 kg) in maximum configuration</li> <li>Hinged toolless cover for easy serviceability</li> <li>Toolless disk and optical drive removal</li> </ul>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, opt reader (some models)	
Slot	Slot 1: Low Profile, 32-bit PCI 2.3	Security  Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
	optical disk	Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Individual USB port disablement Chassis intrusion switch
		EPEAT™ Gold rating
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day	ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
	for service dispatch / service upgrades available	Supports ThinkVantage Technologies

## ThinkCentre® M91 Small (4514) - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
4514-A1G	4x3	Core i3-2100	2GBx1 1333MHz	250G 7200	DVD±RW	Intel HD	None	Stand	ES50	None	NN	Pro 32

- The most powerful, stable, and manageable desktop with next generation Intel platform
- This model has a 3-year limited warranty
  This system is Microsoft Office 2010 Product Key Ready (O10PKR)

De etite e te e	Little and a second and a left for an all and a second after the second and a second as	Durate and a discount of the contract of the c
Positioning Processor Implementation	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	Preloaded operating system  Genuine Windows® 7  Professional 32  Preloaded applications (only some listed)
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	Rescue and Recovery <sup>™</sup>
Graphics  DP dongle	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz None	<ul> <li>ThinkVantage® System Update</li> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011</li> <li>(30 days of virus definitions)</li> </ul>
Disk Optical SATA controller SATA cables eSATA port Media reader	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector on planar None None	Adobe® Reader®     Skype™ for Windows     Microsoft® Office 2010 preloaded; purchase product key to activate     Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® None None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Floor Stand Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo System floor stand for vertical orientation 240 watts, autosensing, 85% PSU	
Machine	<ul> <li>Business black color; metal case</li> <li>13.3" W X 14.5" D X 3.9" H</li> <li>337mm W X 369mm D X 99mm H</li> <li>16.5 lb (7.5 kg) in maximum configuration</li> <li>Toolless cover flips up and tilts backward on rear hinges</li> <li>Toolless disk and optical drive removal</li> <li>Toolless adapter retention</li> </ul>	
Slot	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader Slot 1: Low Profile, PCI Express 2.0 x16 (45w max)	
	Slot 2: Low Profile, PCle 2.0 x1 Slot 3: Low Profile, 32-bit PCl 2.3 Slot 4: Low Profile, 32-bit PCl 2.3	Security  Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) Power-on password
	disk optical	Hard disk password     Boot sequence control     Boot without keyboard and mouse     Serial port I/O control     Individual USB port disablement  EPEAT™ Gold rating
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	ENERGY STAR® 5.Ŏ-compliant GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

## ThinkCentre® M91 Tower (4517) - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
4517-A1G	4x4	Core i3-2100	2GBx1 1333MHz	250G 7200	None	DVD±RW	Intel HD	None	ES50	None	NN	Pro 32

- The most powerful, stable, and manageable desktop with next generation Intel platform
  This model has a 3-year limited warranty
  This system is Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning Processor Implementation	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	Preloaded operating system Genuine Windows® 7 Professional 32 Preloaded applications (only some listed)
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	Rescue and Recovery™  Third Vesters ® Customs I Indiate  Third Years are ® Customs I Indiate  The State of the Sta
Graphics  DP dongle	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort <sup>™</sup> , supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA) @ 60Hz  None	<ul> <li>ThinkVantage<sup>®</sup> System Update</li> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011</li> <li>(30 days of virus definitions)</li> </ul>
Disk Optical SATA controller SATA cables eSATA port Media reader	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector on planar None None	Adobe® Reader®     Skype™ for Windows     Microsoft® Office 2010 preloaded; purchase product key to activate     Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® None None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing, 85% PSU	
Machine	Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Handle on top front Power button on top handle Toolless cover removal Tilted front I/O for easy access Toolless disk, optical drive removal Toolless adapter retention	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk	Security
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCI e 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3  3 disk	Security chip (see information on left) One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement  EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

### ThinkCentre® M91p Eco Ultra Small (0384) - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
0384-A9G	1x2	Core i5-2400S	2GBx1 1333MHz	250G 7200	DVD±RW	Intel HD	Switch	None	ES50	vPro	NN	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- This model has a 1-year limited warranty
  This system is Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Ultimate security, stability, and manageability for the enterprise	Preloaded operating system
Processor	Intel® Core™ i5-2400S Processor (4 cores / 4 threads, 2.5GHz, 6MB cache), Turbo Boost 2.0 (3.3GHz), integrated Intel HD Graphics 2000,	Genuine Windows® 7
	integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Professional 64
Implementation	Processor in LGA1155 socket	Preloaded applications (only some listed)
Memory	8GB max, PC3-10600 1333MHz DDR3, two 204-pin SODIMM sockets (notebook)	● Rescue and Recovery™   ● ThinkVantage® System Update
Graphics  DB dende	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort <sup>™</sup> , supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz	<ul> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011</li> </ul>
DP dongle	None	(30 days of virus definitions)
Disk Optical	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Adobe Reader     Skype™ for Windows
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1	<ul> <li>Microsoft® Office 2010 preloaded;</li> </ul>
SATA cables	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, one SATA 3.0Gb/s connector, and one eSATA connector on planar	purchase product key to activate  • Corel® Burn.Now™ (DVD±RW)  • Corel DVD MovieFactory® (DVD±RW)
eSATA port	None	Colei DVD Moviel actory (DVD±RVV)
Media reader	None	-
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	-
Rear ports	Six USB 2.0, ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports Audio	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	Intel Active Management Technology 7.1 (Intel AMT 7.1)	
Modem	None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	-
Mouse Keyboard	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo® logo Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	
Floor Stand	None	
Power supply	150 watts AC/DC adapter, autosensing, 87% PSU	
Machine	Business black color; metal case	-
	<ul> <li>10.8" W X 9.4" D X 3.1" H</li> <li>275mm W X 238mm D X 79mm H</li> <li>9.2 lb (4.2 kg) in maximum configuration</li> <li>Hinged toolless cover for easy serviceability</li> <li>Toolless disk and optical drive removal</li> </ul>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk	
Slot	Slot 1: Low Profile, 32-bit PCI 2.3	
		Constitut
		Security Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
	optical disk	Power-on password     Hard disk password     Boot sequence control     Boot without keyboard and mouse     Individual USB port disablement     Chassis intrusion switch
		Chassis intrusion switch     EPEAT™ Gold rating
		ENERGY STAR® 5.0-compliant
Limited Warranty	1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day	GREENGUARD® certified RoHS-compliant
	for service dispatch / service upgrades available	Supports ThinkVantage Technologies

### ThinkCentre® M91p Eco Ultra Small (0266) - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Media reader	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
0266-C8G	1x2	Core i5-2400S	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	None	Switch	None	ES50	vPro	ΝN	Pro 64
0266-C9G	1x2	Core i5-2400S	2GBx2 1333MHz	500G 7200	DVD±RW	Intel HD	None	Switch	None	ES50	vPro	ΝN	Pro 64
0266-D9G	1x3	Core i5-2400S	4GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	Media	Switch	None	ES50	vPro	ΝN	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- These models have a 3-year limited warranty
  These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5-2400S Processor (4 cores / 4 threads, 2.5GHz, 6MB cache),	Preloaded operating system
1 10000001	Turbo Boost 2.0 (3.3GHz), integrated Intel HD Graphics 2000,	Genuine Windows® 7 Professional 64
Implementation	integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	Preloaded applications (only some listed)
Memory	8GB max, PC3-10600 1333MHz DDR3, two 204-pin SODIMM sockets (notebook)	Rescue and Recovery™  This ly (anton a second line)  This ly (anton a second line)
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort <sup>™</sup> , supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA)@60Hz	<ul> <li>ThinkVantage® System Update</li> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011</li> </ul>
DP dongle	None	(30 days of virus definitions)
Disk Optical SATA controller SATA cables	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector,	<ul> <li>Adobe<sup>®</sup> Reader<sup>®</sup></li> <li>Skype<sup>™</sup> for Windows</li> <li>Microsoft<sup>®</sup> Office 2010 preloaded; purchase product key to activate</li> <li>Corel<sup>®</sup> Burn.Now<sup>™</sup> (DVD±RW)</li> </ul>
eSATA port Media reader	one SATA 3.0Gb/s connector, and one eSATA connector on planar None Some: Single Slot SD Media Card Reader	Corel DVD MovieFactory® (DVD±RW)
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	-
Front ports Rear ports Rear audio ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	-
Audio Speaker	High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio	
Ethernet Intel AMT Modem	One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Active Management Technology 7.1 (Intel AMT 7.1) None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Mouse Keyboard Floor Stand	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo® logo Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo None	
Power supply	150 watts AC/DC adapter, autosensing, 87% PSU	
Machine	Business black color; metal case  10.8" W X 9.4" D X 3.1" H  275mm W X 238mm D X 79mm H  9.2 lb (4.2 kg) in maximum configuration  Hinged toolless cover for easy serviceability  Toolless disk and optical drive removal	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, opt reader (some models)	
Slot	Slot 1: Low Profile, 32-bit PCI 2.3	
		Security  • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver®
	optical disk	cable)  • Power-on password  • Hard disk password  • Boot sequence control  • Boot without keyboard and mouse  • Individual USB port disablement  • Chassis intrusion switch
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day	EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
	for service dispatch / service upgrades available	Supports ThinkVantage Technologies

### ThinkCentre® M91p Eco Ultra Small (4168) - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
4168-A1G	1x2	Core i5-2400S	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	Switch	None	ES50	vPro	NN	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
   This model has a 3-year limited warranty
- This system is Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Ultimate security, stability, and manageability for the enterprise	Preloaded operating system
Processor	Intel® Core™ i5-2400S Processor (4 cores / 4 threads, 2.5GHz, 6MB cache),	Genuine Windows® 7
	Turbo Boost 2.0 (3.3GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Professional 64
Implementation	Processor in LGA1155 socket	Preloaded applications (only some listed)
Memory	8GB max, PC3-10600 1333MHz DDR3, two 204-pin SODIMM sockets (notebook)	Rescue and Recovery
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort <sup>™</sup> , supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz	<ul> <li>ThinkVantage<sup>®</sup> System Update</li> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011</li> </ul>
DP dongle	None	(30 days of virus definitions)
Disk Optical SATA controller SATA cables eSATA port Media reader	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, one SATA 3.0Gb/s connector, and one eSATA connector on planar None None	<ul> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> <li>Microsoft® Office 2010 preloaded; purchase product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports Rear ports Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Active Management Technology 7.1 (Intel AMT 7.1) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Mouse Keyboard Floor Stand Power supply	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo® logo Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo None 150 watts AC/DC adapter, autosensing, 87% PSU	
Machine	<ul> <li>Business black color; metal case</li> <li>10.8" W X 9.4" D X 3.1" H</li> <li>275mm W X 238mm D X 79mm H</li> <li>9.2 lb (4.2 kg) in maximum configuration</li> <li>Hinged toolless cover for easy serviceability</li> <li>Toolless disk and optical drive removal</li> <li>Bay 1: 5.25", 1.6" high, access, std optical</li> <li>Bay 2: 3.5", 1" high, no access, std disk</li> </ul>	
Slot	Slot 1: Low Profile, 32-bit PCI 2.3	Security  Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) Power-on password Hard disk password Sect seguence control
	optical disk	Boot sequence control     Boot without keyboard and mouse     Individual USB port disablement     Chassis intrusion switch  EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
Limited Warranty	3-years, customer carry-in service / service upgrades available	Supports ThinkVantage Technologies

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Intel vPro	Global (G) GMP (P)	Win7 preload
5067-A1G	1x2	Core i5-2400S	2GBx1 1333MHz	250G 7200	DVD±RW	Intel HD	None	None	ES50	vPro	GΡ	Pro 32
5067-A3G	1x2	Core i5-2400S	4GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	None	None	ES50	vPro	GΡ	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
   These models are part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
   These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Ultimate security, stability, and manageability for the enterprise	Preloaded operating system
Processor	Intel® Core™ i5-2400S Processor (4 cores / 4 threads, 2.5GHz, 6MB cache), Turbo Boost 2.0 (3.3GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Some: Genuine Windows® 7 Professional 32
Implementation	Processor in LGA1155 socket	Some: Genuine Windows 7 Professional 64
Memory	8GB max, PC3-10600 1333MHz DDR3, two 204-pin SODIMM sockets (notebook)	Preloaded applications (only some listed)
Graphics  DP dongle	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort™, supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz  None	Rescue and Recovery™     ThinkVantage® System Update     ThinkVantage Power Manager     ThinkVantage Toolbox
Disk Optical SATA controller SATA cables eSATA port Media reader	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, one SATA 3.0Gb/s connector, and one eSATA connector on planar None None	<ul> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011         <ul> <li>(30 days of virus definitions)</li> </ul> </li> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> <li>Microsoft® Office 2010 preloaded; purchase product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	Cooler By Binioner detery (By Bininy)
Front ports Rear ports Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Active Management Technology 7.1 (Intel AMT 7.1) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Floor Stand Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo None 150 watts AC/DC adapter, autosensing, 87% PSU	-
Machine Bay	Business black color; metal case  10.8" W X 9.4" D X 3.1" H  275mm W X 238mm D X 79mm H  9.2 lb (4.2 kg) in maximum configuration  Hinged toolless cover for easy serviceability  Toolless disk and optical drive removal  Bay 1: 5.25", 1.6" high, access, std optical  Bay 2: 3.5", 1" high, no access, std disk	
Slot	Slot 1: Low Profile, 32-bit PCI 2.3	
	optical disk □ ∘∘ □	Security Security (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Individual USB port disablement  EPEAT™ Gold rating
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
4466-A1G	4x3	Core i5-2400	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	Switch	None	ES50	vPro	NN	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- This small and medium business (SMB) model is part of the Western Europe TopSeller™ Program
   This model has a 1-year limited warranty
- This system is Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Ultimate security, stability, and manageability for the enterprise	Preloaded operating system
Processor	Intel® Core™ i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Genuine Windows® 7 Professional 64
Implementation	Processor in LGA1155 socket	Preloaded applications (only some listed)
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	■ Rescue and Recovery™     ■ ThinkVantage® System Update
Graphics  DP dongle	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @ 60Hz None	<ul> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011</li> <li>(30 days of virus definitions)</li> </ul>
Disk Optical SATA controller SATA cables eSATA port Media reader Chipset	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector on planar None None Intel Q67 Express Chipset	<ul> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> <li>Microsoft® Office 2010 preloaded; purchase product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>
	Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	-
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Active Management Technology 7.1 (Intel AMT 7.1) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Floor Stand Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo None 240 watts, autosensing, 85% PSU	
Machine	Business black color; metal case  13.3" W X 14.5" D X 3.9" H  337mm W X 369mm D X 99mm H  16.5 lb (7.5 kg) in maximum configuration  Toolless cover flips up and tilts backward on rear hinges  Toolless disk and optical drive removal  Toolless adapter retention	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader	Security     Security chip (see information on left)     Security slot (in rear for attachment of
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3	optional Kensington® MicroSaver® cable)  • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control
Limited Warranty	1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and	Individual USB port disablement     Chassis intrusion switch  EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified
Emilied Wandilly	national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	RoHS-compliant Supports ThinkVantage Technologies

### ThinkCentre® M91p Small (4480) - TopSeller - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
4480-A6G	4x3	Core i7-2600	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	Switch	None	ES50	vPro	N N	Pro 64
4480-A7G	4x3	Core i5-2500	2GBx1 1333MHz	250G 7200	DVD±RW		Switch	None	ES50	vPro	N N	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
   These small and medium business (SMB) models are part of the Western Europe TopSeller™ Program

- These models have a 3-year limited warranty
  These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

ine Windows® 7 ssional 64 aded applications (only some listed) scue and Recovery™ nkVantage® System Update nkVantage Power Manager
ssional 64 aded applications (only some listed) scue and Recovery <sup>™</sup> nkVantage <sup>®</sup> System Update nkVantage Power Manager
scue and Recovery™ nkVantage® System Update nkVantage Power Manager
nkVantage® System Update nkVantage Power Manager
nkVantage Power Manager
ikVantage Power Manager
nkVantage Toolbox
ton™ Internet Security 2011
days of virus definitions)
bbe <sup>®</sup> Reader <sup>®</sup> pe™ for Windows
rosoft® Office 2010 preloaded;
chase product key to activate
el <sup>®</sup> Burn.Now™ (DVD±RW)
el DVD MovieFactory® (DVD±RW)
<u>.</u>
r <b>ity</b> curity chip (see information on left)
curity slot (in rear for attachment of
onal Kensington® MicroSaver®
le)
ver-on password d disk password
ot sequence control
ot without keyboard and mouse
ial port I/O control vidual USB port disablement
assis intrusion switch
T™ Gold rating
RGY STAR® 5.0-compliant
ENGUARD® certified S-compliant
orts ThinkVantage Technologies

### ThinkCentre® M91p Small (7072) - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
7072-A1G	4x3	Core i5-2500	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	Switch	None	ES50	vPro	NN	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
   This model has a 1-year limited warranty
   This system is Microsoft Office 2010 Product Key Ready (O10PKR)

		1
Positioning Processor	Ultimate security, stability, and manageability for the enterprise  Intel® Core™ i5-2500 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),	Preloaded operating system
1 10063301	Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2000,	Genuine Windows® 7 Professional 64
Landania antatian	integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Preloaded applications (only some listed)
Implementation	Processor in LGA1155 socket	Rescue and Recovery <sup>™</sup>
Memory	16GB max, <b>UDIMM</b> , <b>PC3-10600 1333MHz DDR3</b> , four 240-pin DIMM sockets  Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1,	ThinkVantage® System Update
Graphics	one VGA, one DisplayPort™, supports dual independent display;	ThinkVantage Power Manager
	Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz	<ul> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011</li> </ul>
DP dongle	None	(30 days of virus definitions)
Disk	SATA 6.0Gb/s 7200 rpm	<ul> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> </ul>
Optical SATA controller	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1	Microsoft® Office 2010 preloaded;
SATA cables	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector on planar	purchase product key to activate  • Corel® Burn.Now™ (DVD±RW)
eSATA port	None	Corel DVD MovieFactory® (DVD±RW)
Media reader	None	
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	-[
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT Modem	Intel Active Management Technology 7.1 (Intel AMT 7.1) None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	-
Mouse	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	
Floor Stand	None	
Power supply Machine	240 watts, autosensing, 85% PSU  • Business black color; metal case	-
Macrinie	• 13.3" W X 14.5" D X 3.9" H	
	• 337mm W X 369mm D X 99mm H	
	<ul> <li>16.5 lb (7.5 kg) in maximum configuration</li> <li>Toolless cover flips up and tilts backward on rear hinges</li> </ul>	
	Toolless disk and optical drive removal	
Pov	Toolless adapter retention  Pay 1: F 2F" 1 6" bigb access and aptical	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk	
01.1	Bay 3: 3.5", .5" high, access, opt reader	
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1	Security
	Slot 3: Low Profile, 32-bit PCI 2.3	<ul> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of</li> </ul>
	Slot 4: Low Profile, 32-bit PCI 2.3	optional Kensington® MicroSaver® cable)
		<ul> <li>Power-on password</li> </ul>
	<u> </u>	<ul><li>Hard disk password</li><li>Boot sequence control</li></ul>
	disk optical	<ul> <li>Boot without keyboard and mouse</li> </ul>
		Serial port I/O control     Individual USB port disablement
		Chassis intrusion switch
		EPEAT™ Gold rating
		ENERGY STAR® 5.0-compliant
Limited Warranty	1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and	GREENGUARD® certified RoHS-compliant
	national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	Supports ThinkVantage Technologies
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## ThinkCentre® M91p Small (4518) - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
4518-A2G	4x3	Core i7-2600	2GBx2 1333MHz	500G 7200	DVD±RW	HD 5450	Switch	None	ES50	vPro	ΝN	Pro 64
4518-A3G	4x3	Core i5-2500	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	Switch	None	ES50	vPro	ΝN	Pro 32
4518-A4G	4x3	Core i5-2400	2GBx1 1333MHz	250G 7200	DVD±RW	Intel HD	None	None	ES50	vPro	ΝN	Pro 32
4518-D8G	4x3	Core i5-2400	2GBx1 1333MHz	250G 7200	DVD±RW	Intel HD	Switch	None	ES50	vPro	ΝN	Pro 64
4518-D9G	4x3	Core i5-2500	4GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	Switch	None	ES50	vPro	ΝN	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
   These models have a 3-year limited warranty
   These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Docitioning	Ultimate acquirty atability and manageability for the enterprise	Distance of the state of the st
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-2500 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-2600 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	Preloaded operating system  Some: Genuine Windows® 7 Professional 32  Some: Genuine Windows 7 Professional 64  Preloaded applications (only some listed)  ■ Rescue and Recovery™ ■ ThinkVantage® System Update ■ ThinkVantage Power Manager ■ ThinkVantage Toolbox
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	Norton™ Internet Security 2011     (30 days of virus definitions)
Graphics	<ul> <li>Some: Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz;</li> <li>Some: AMD Radeon™ HD 5450, PCI Express® 2.0 x16 adapter, HDCP, DirectX 11, 512MB, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz; 2048x1536@85Hz (VGA via DVI-to-VGA dongle); works along with Intel HD Graphics 2000 to support four independent monitors</li> </ul>	Adobe® Reader®     Skype™ for Windows     Microsoft® Office 2010 preloaded; purchase product key to activate     Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)
DP dongle	None	
Disk Optical SATA controller SATA cables eSATA port	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector on planar None	
Media reader	None	
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Active Management Technology 7.1 (Intel AMT 7.1) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Floor Stand Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo None 240 watts, autosensing, 85% PSU	
Machine	Business black color; metal case 13.3" W X 14.5" D X 3.9" H 337mm W X 369mm D X 99mm H 16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear hinges Toolless disk and optical drive removal Toolless adapter retention	Security  Security chip (see information on left)  Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)  Power-on password  Hard disk password
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader Slot 1: Low Profile, PCI Express 2.0 x16 (45w max)	Boot sequence control     Boot without keyboard and mouse     Serial port I/O control     Individual USB port disablement
	Slot 2: Low Profile, PCle 2.0 x1 Slot 3: Low Profile, 32-bit PCl 2.3 Slot 4: Low Profile, 32-bit PCl 2.3	Some: Chassis intrusion switch  EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	RoHS-compliant Supports ThinkVantage Technologies

### ThinkCentre® M91p Small (4512) - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
4512-A6G	4x3	Core i5-2500	2GBx1 1333MHz		DVD±RW	Intel HD	Switch	None	ES50	vPro	NN	Pro 64
4512-A7G	4x3	Core i7-2600	4GBx1 1333MHz	500G 7200	$DVD\pm RW$	Intel HD	Switch	None	ES50	vPro	ΝN	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
   These models have a 3-year limited warranty
   These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Ultimate security, stability, and manageability for the enterprise	Preloaded operating system
Processor	Intel® Core™ i5-2500 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2000,	Genuine Windows® 7
	integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Professional 64
	Intel Core i7-2600 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),	Preloaded applications (only some listed)
	Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	<ul> <li>Rescue and Recovery™</li> <li>ThinkVantage® System Update</li> </ul>
Implementation	Processor in LGA1155 socket	ThinkVantage System Opdate     ThinkVantage Power Manager
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	ThinkVantage Toolbox
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort™, supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz	<ul> <li>Norton™ Internet Security 2011         (30 days of virus definitions)</li> <li>Adobe<sup>®</sup> Reader<sup>®</sup></li> <li>Skype™ for Windows</li> </ul>
DP dongle	None	Microsoft® Office 2010 preloaded;
Disk	SATA 6.0Gb/s 7200 rpm	purchase product key to activate
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	<ul> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>
SATA controller SATA cables	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors,	Colei DVD Moviel actory (DVD±RVV)
SAIA Cables	one SATA 3.0Gb/s connector, and one eSATA connector on planar	
eSATA port	None	
Media reader	None	
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	Intel Active Management Technology 7.1 (Intel AMT 7.1)	
Modem Security chip	None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	-
Mouse	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	
Floor Stand	None	
Power supply	240 watts, autosensing, 85% PSU	_
Machine	Business black color; metal case     13.3" W.Y.14.5" D.Y.2.0" H.	
	■ 13.3" W X 14.5" D X 3.9" H     ■ 337mm W X 369mm D X 99mm H	
	<ul><li>◆ 16.5 lb (7.5 kg) in maximum configuration</li></ul>	
	<ul> <li>Toolless cover flips up and tilts backward on rear hinges</li> <li>Toolless disk and optical drive removal</li> </ul>	
	Toolless disk and optical drive removal     Toolless adapter retention	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader	Security     Security chip (see information on left)     Security slot (in rear for attachment of
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max)	optional Kensington® MicroSaver®
	Slot 2: Low Profile, PCIe 2.0 x1	cable)  • Power-on password
	Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3	Hard disk password
	disk optical	Boot sequence control
		Boot without keyboard and mouse     Serial port I/O control
		<ul> <li>Individual USB port disablement</li> </ul>
		Chassis intrusion switch
		EPEAT™ Gold rating
		ENERGY STAR® 5.0-compliant GREENGUARD® certified
		RoHS-compliant
Limited Warranty	3-years, customer carry-in service / service upgrades available	Supports ThinkVantage Technologies

### ThinkCentre® M91p Small (7033) - GMP - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0		Global (G GMP (P)	i) Win7 preload
7033-A1G	.,,,	Core i5-2400	2GBx1 1333MHz		DVD±RW	Intel HD	None	Stand	ES50	vPro	GΡ	Pro 32
7033-A2G	4x3	Core i5-2400	4GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	None	Stand	ES50	vPro	GΡ	Pro 6

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
   These models are part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
   These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Ultimate security, stability, and manageability for the enterprise	Preloaded operating system
Processor	Intel® Core™ i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache),	Some: Genuine Windows® 7
	Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics 2000,	Professional 32
Implementation	integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	Some: Genuine Windows 7
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	Professional 64
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1,	Preloaded applications (only some listed)
агартноо	one VGA, one DisplayPort™, supports dual independent display;	■ Rescue and Recovery™ ■ Think Ventage® System Undetage
	Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz	ThinkVantage® System Update ThinkVantage Power Manager
DP dongle	None	ThinkVantage Toolbox  Toolbox
Disk	SATA 6.0Gb/s 7200 rpm	<ul> <li>Norton™ Internet Security 2011</li> </ul>
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	(30 days of virus definitions)
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1	<ul> <li>Adobe<sup>®</sup> Reader<sup>®</sup></li> <li>Skype<sup>™</sup> for Windows</li> </ul>
SATA cables	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector on planar	Microsoft® Office 2010 preloaded;
eSATA port	None	purchase product key to activate
Media reader	None	Corel® Burn.Now™ (DVD±RW)
	Intel Q67 Express Chipset	Corel DVD MovieFactory® (DVD±RW)
Chipset	Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker Ethernet	Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	Intel Active Management Technology 7.1 (Intel AMT 7.1)	
Modem	None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	_
Mouse	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	
Floor Stand	System floor stand for vertical orientation	
Power supply	240 watts, autosensing, 85% PSU	
Machine	Business black color; metal case	
	• 13.3" W X 14.5" D X 3.9" H	
	<ul> <li>337mm W X 369mm D X 99mm H</li> <li>16.5 lb (7.5 kg) in maximum configuration</li> </ul>	
	Toolless cover flips up and tilts backward on rear hinges	
	Toolless disk and optical drive removal	
	Toolless adapter retention	
Bay	Bay 1: 5.25", 1.6" high, access, std optical	
	Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader	
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max)	
0.01	Slot 2: Low Profile, PCle 2.0 x1	Security
	Slot 3: Low Profile, 32-bit PCI 2.3	<ul> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of</li> </ul>
	Slot 4: Low Profile, 32-bit PCI 2.3	optional Kensington® MicroSaver®
		cable)
		Power-on password
	disk optical	<ul><li>Hard disk password</li><li>Boot sequence control</li></ul>
		Boot sequence control     Boot without keyboard and mouse
		Serial port I/O control
		<ul> <li>Individual USB port disablement</li> </ul>
		EPEAT™ Gold rating
		ENERGY STAR® 5.Ŏ-compliant
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and	GREENGUARD® certified RoHS-compliant
	national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	Supports ThinkVantage Technologies
	ior service dispatori / service apgrades available	Supports Thirth variage Technologies

### ThinkCentre® M91p Tower (7052) - TopSeller - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay		Graphics	Chassis intr switch	Media reader	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
7052-A3G	4x4	Core i5-2500	2GBx1 1333MHz	250G 7200	None	DVD±RW	Intel HD	Switch	None	ES50	vPro	ΝN	Pro 64
7052-A4G	4x4	Core i7-2600	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	Switch	None	ES50	vPro	NΝ	Pro 64
7052-C1G	4x5	Core i7-2600	4GBx1 1333MHz	1TB 7200	Bay	DVD±RW	Intel HD	Switch	Media	ES50	vPro	NN	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
   These small and medium business (SMB) models are part of the Western Europe TopSeller™ Program
   These models have a 3-year limited warranty

- These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Ultimate coourity stability and manageability for the enterprise	Proloaded enerating system
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5-2500 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-2600 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Preloaded operating system Genuine Windows® 7 Professional 64 Preloaded applications (only some listed)  ● Rescue and Recovery™
Implementation	Processor in LGA1155 socket	ThinkVantage® System Update     ThinkVantage Power Manager
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	ThinkVantage Toolbox
Graphics  DP dongle	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort <sup>™</sup> , supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz  None	Norton™ Internet Security 2011 (30 days of virus definitions)     Adobe® Reader®     Skype™ for Windows     Migreont® Office 2010 proleaded:
Disk	SATA 6.0Gb/s 7200 rpm	Microsoft Office 2010 preloaded; purchase product key to activate
Optical SATA controller SATA cables	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector on planar	Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)
eSATA port Media reader	None Some: 25-in-1 media reader, internal USB 2.0	
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Audio Speaker	High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio	
Ethernet Intel AMT	One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Active Management Technology 7.1 (Intel AMT 7.1)	
Modem Security chip	None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing, 85% PSU	
Machine	<ul> <li>Business black color; metal case</li> <li>6.9" W X 17.4" D X 16.3" H</li> <li>175mm W X 442mm D X 414mm H</li> <li>24.2 lb (11.0 kg) in maximum configuration</li> <li>Handle on top front</li> <li>Power button on top handle</li> <li>Toolless cover removal</li> <li>Tilted front I/O for easy access</li> </ul>	
	Toolless adapter retention  Toolless adapter retention	Security • Security chip (see information on left)
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk (some models)	One lock to secure both cover and entire system to fixed object:     Padlock loop (in rear for opt padlock)     Security slot (in rear for optional Kensington® MicroSaver® cable)
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	Power-on password     Hard disk password     Boot sequence control     Boot without keyboard and mouse     Serial port I/O control     Individual USB port disablement     Chassis intrusion switch
		EPEAT™ Gold rating
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day	ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
	for service dispatch / service upgrades available	Supports ThinkVantage Technologies

### ThinkCentre® M91p Tower (4524) - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
4524-A4G	4x4	Core i7-2600	2GBx1 1333MHz	500G 7200	None	DVD±RW	HD 5450	Switch	ES50	vPro	ΝN	Pro 64
4524-A5G	4x4	Core i5-2500	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	Switch	ES50	vPro	ΝN	Pro 32
4524-E4G	4x4	Core i5-2500	4GBx1 1333MHz	500G 7200	None	DVD±RW	Intel HD	Switch	ES50	vPro	ΝN	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
   These models have a 3-year limited warranty
   These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning Processor Implementation	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5-2500 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-2600 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	Preloaded operating system  Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64  Preloaded applications (only some listed)  ● Rescue and Recovery™
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	ThinkVantage® System Update     ThinkVantage® System Update
Graphics	<ul> <li>Some: Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz;</li> <li>Some: AMD Radeon™ HD 5450, PCI Express® 2.0 x16 adapter, HDCP, DirectX 11, 512MB, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz; 2048x1536@85Hz (VGA via DVI-to-VGA dongle); works along with Intel HD Graphics 2000 to support four independent monitors</li> </ul>	<ul> <li>ThinkVantage Power Manager</li> <li>ThinkVantage Toolbox</li> <li>Norton™ Internet Security 2011 (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> <li>Microsoft® Office 2010 preloaded; purchase product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> </ul>
DP dongle	None	<ul> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>
Disk Optical SATA controller SATA cables eSATA port	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector on planar None	
Media reader	None	
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Active Management Technology 7.1 (Intel AMT 7.1) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing, 85% PSU	
Machine	Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Handle on top front Power button on top handle Toolless cover removal Tilted front I/O for easy access Toolless disk, optical drive removal Toolless adapter retention	Security  • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk	Kensington® MicroSaver® cable)  • Power-on password  • Hard disk password  • Boot sequence control
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	Boot without keyboard and mouse Serial port I/O control Individual USB port disablement Chassis intrusion switch  EPEAT™ Gold rating  ENERGY STAR® 5.0 compliant
Limited Warranty	<b>3-years</b> , <b>limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

### ThinkCentre® M91p Tower (4513) - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
4513-A7G		Core i5-2400	2GBx1 1333MHz	250G 7200	None	DVD±RW	Intel HD	Switch	ES50	vPro	N N	Pro 64
4513-A8G		Core i7-2600	4GBx1 1333MHz	500G 7200	None	DVD±RW	Intel HD	Switch	ES50	vPro	N N	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
   These models have a 3-year limited warranty
   These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Preloaded operating system Genuine Windows® 7 Professional 64 Preloaded applications (only some listed)
Implementation	Intel Core i7-2600 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	Rescue and Recovery™     ThinkVantage® System Update     ThinkVantage Power Manager
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	ThinkVantage Toolbox
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX <sup>®</sup> 10.1, one VGA, one DisplayPort <sup>™</sup> , supports dual independent display;  Maximum resolution: 2560x1600 (DisplayPort, VGA) @ 60Hz	<ul> <li>Norton™ Internet Security 2011         (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> </ul>
DP dongle	None	Microsoft® Office 2010 preloaded;
Disk	SATA 6.0Gb/s 7200 rpm	purchase product key to activate
Optical SATA controller SATA cables	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector on planar	Corel® Burn.Now™ (DVD±RW)     Corel DVD MovieFactory® (DVD±RW)
eSATA port	None	
Media reader Chipset	None  Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O	-
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Active Management Technology 7.1 (Intel AMT 7.1) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing, 85% PSU	-
Machine	Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Handle on top front Power button on top handle Toolless cover removal Tilted front I/O for easy access Toolless disk, optical drive removal Toolless adapter retention	Security
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk	Security chip (see information on left)     One lock to secure both cover and entire system to fixed object:     Padlock loop (in rear for opt padlock)
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	-Security slot (in rear for optional Kensington® MicroSaver® cable)  • Power-on password  • Hard disk password  • Boot sequence control  • Boot without keyboard and mouse  • Serial port I/O control  • Individual USB port disablement  • Chassis intrusion switch
		EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
Limited Warranty	3-years, customer carry-in service / service upgrades available	Supports ThinkVantage Technologies

### ThinkCentre® M91p Tower (7034) - GMP - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.0		Global (G GMP (P)	) Win7 preload
7034-A1G		Core i5-2400	2GBx1 1333MHz	250G 7200	None	DVD±RW	Intel HD	None	ES50	vPro	GΡ	Pro 32
7034-A2G	4x4	Core i5-2400	4GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	None	ES50	vPro	GΡ	Pro 64

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
   These models are part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
   These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning	Ultimate security, stability, and manageability for the enterprise	Preloaded operating system
Processor	Intel® Core™ i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache).	Some: Genuine Windows® 7
	Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics 2000,	Professional 32
land a same a same a district	integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Some: Genuine Windows 7
Implementation	Processor in LGA1155 socket	Professional 64
Memory	16GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets	Preloaded applications (only some listed)
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1,	<ul> <li>Rescue and Recovery™</li> </ul>
	one VGA, one DisplayPort™, supports dual independent display;	ThinkVantage® System Update
DP denale	Maximum resolution: 2560x1600 (DisplayPort, VGA) @ 60Hz	ThinkVantage Power Manager
DP dongle	None	■ ThinkVantage Toolbox
Disk	SATA 6.0Gb/s 7200 rpm	Norton™ Internet Security 2011     (20 days of virus definitions)
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	(30 days of virus definitions)  • Adobe® Reader®
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1	Skype™ for Windows
SATA cables	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors,	Microsoft® Office 2010 preloaded;
ocaTA port	one SATA 3.0Gb/s connector, and one eSATA connector on planar None	purchase product key to activate
eSATA port Media reader	None	Corel® Burn.Now™ (ĎVD±RW)
		Corel DVD MovieFactory <sup>®</sup> (DVD±RW)
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB),	
	SMSC® 5627P Super I/O	
Front ports	•	-
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Intel AMT	Intel Active Management Technology 7.1 (Intel AMT 7.1)	
Modem	None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	-
Mouse	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosensing, 85% PSU	
Machine	Business black color; metal case	-
	• 6.9" W X 17.4" D X 16.3" H	
	• 175mm W X 442mm D X 414mm H	
	24.2 lb (11.0 kg) in maximum configuration	
	<ul> <li>Handle on top front</li> <li>Power button on top handle</li> </ul>	
	Toolless cover removal	
	Tilted front I/O for easy access	
	Toolless disk, optical drive removal	
	Toolless adapter retention	
Bay	Bay 1: 5.25", 1.6" high, access, std optical	Security  Security chip (see information on left)
	Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader	One lock to secure both cover and
	Bay 4: 3.5", 1" high, no access, std disk	entire system to fixed object:
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max)	-Padlock loop (in rear for opt padlock)
	Slot 2: half-length, full-height, PCIe 2.0 x1	-Security slot (in rear for optional
	Slot 3: half-length, full-height, 32-bit PCI 2.3	Kensington® MicroSaver® cable)
	Slot 4: half-length, full-height, 32-bit PCI 2.3	<ul><li>Power-on password</li><li>Hard disk password</li></ul>
		Boot sequence control
		Boot without keyboard and mouse
		Serial port I/O control
		<ul> <li>Individual USB port disablement</li> </ul>
		EPEAT™ Gold rating
		ENERGY STAR® 5.0-compliant
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and	GREENGUARD® certified
,	national holidays. Calls received after 3 pm will require an additional next business day	RoHS-compliant
	for service dispatch / service upgrades available	Supports ThinkVantage Technologies





Lenovo ThinkCentre Edge 71 Small and Lenovo ThinkCentre Edge 71 Tower



Lenovo ThinkCentre Edge 71 Tower with dual Lenovo ThinkVision monitors



Lenovo ThinkCentre Edge 71 Small



Lenovo ThinkCentre Edge 71 Small with Lenovo ThinkVision monitor





Lenovo ThinkCentre Edge 71 Tower



Lenovo ThinkCentre Edge 71 Tower

## ThinkCentre® Edge 71 Small (1578) - TopSeller - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Media reader	Parallel port	Serial port	Floor stand	Global Educ	Win7 preload
1578-D7G	3x3	Core i3-2120	4GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	Media	Parallel	Serial	Stand	ΝN	Pro 64
1578-D8G	3x3	Core i3-2100	2GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	Media	Parallel	Serial	None	ΝN	Pro 64
1578-E1G	3x3	Pentium G840	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	Media	Parallel	Serial	None	ΝN	Pro 64
1578-F2G	3x3	Pentium G620	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	Media	None	Serial	Stand	ΝN	Pro 64
1578-F3G	3x3	Core i3-2120	2GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	Media	None	Serial	None	ΝN	Pro 64
1578-G3G	3x3	Pentium G630	2GBx1 1333MHz	250G 7200	DVD±RW	Intel HD	Media	None	Serial	Stand	ΝN	Prem 32
1578-G4G	3x3	Pentium G630	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	Media	None	Serial	Stand	ΝN	Pro 64

- These small and medium business (SMB) models are part of the Western Europe TopSeller™ Program
- These models have a 1-year limited warranty

  These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

	● These systems are Microsoft Office 2010 Product Key Ready (O10PKR)	
Positioning Processor	Stylish design, reliability, and productivity for small/medium businesses Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.6GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium G840 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller	Preloaded operating system  Some: Genuine Windows® 7 Professional 64 Some: Genuine Windows 7 Home Premium 32  Preloaded applications²0 (only some listed)  • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe Reader® • Skype™ for Windows
Implementation Memory	Processor in LGA1155 socket  8GB max LIDIMM PC3-10600 1333MHz DDP3 two 240-pip DIMM sockets	Microsoft® Live     Microsoft Office 2010 preloaded;
Memory Graphics  Disk Optical SATA controller SATA cables	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display  SATA 3.0Gb/s 7200 rpm  Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive  Serial ATA, SATA 3.0Gb/s, integrated in chipset  Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar	• Microsoft Office 2010 predaded,     purchase product key to activate     • Corel® Burn.Now™ (DVD±RW)     • Corel DVD MovieFactory® (DVD±RW)
eSATA port	None	
Media reader Chipset	11-in-1 media reader, internal USB 2.0 Intel H61 Express Chipset	-
	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	-
Front ports Rear ports	Four USB 2.0, micropnone (stereo, 3.5mm), neadphone (stereo, 3.5mm) Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15. DVI-D	
Rear audio ports Internal connector Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Three USB 2.0 planar conn (1 used; two open for additional USB devices) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None Gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None None None	
Keyboard Mouse Floor Stand Power supply Machine	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo Some: System floor stand for vertical orientation 180 watts, universal, manual switch  • Glossy black bezel; metal case	
	<ul> <li>13.1" W X 14.5" D X 3.8" H</li> <li>333mm W X 368mm D X 97mm H</li> <li>14.3 lb (6.5 kg) in maximum configuration</li> <li>Ergonomic rubberized handle</li> <li>Highlighted optical drive button for easy access</li> </ul>	Security  • One lock to secure both cover and
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, opt reader* *bay only available on models with media reader installed	entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable)
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1	Power-on password     Administrator password     Hard disk password     Boot sequence control     Boot without keyboard and mouse     Individual USB port disablement
Limited Warranty <sup>1</sup>	1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	RoHS-compliant Supports ThinkVantage Technologies
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Graphics	Media reader	Parallel port	Serial port	Floor stand	Global Educ	Win7 preload	Ann date (mm/dd/yy)
1578-L3G	3x3	Core i5-2400S	4GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	None	None	None	None	ΝN	Pro 64	11/08/11
1578-K9G	3x3	Core i3-2130	2GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	None	None	None	None	ΝN	Pro 64	11/08/11
1578-L2G	3x3	Core i3-2130	4GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	None	None	None	None	ΝN	Pro 64	11/08/11
1578-M7G	3x3	Pentium G630	2GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	Media	Parallel	Serial	None	NN	Pro 64	12/06/11
1578-N9G	3x3	Pentium G630	2GBx1 1333MHz	250G 7200	DVD±RW	Intel HD	Media	None	None	None	ΝN	Pro 64	12/13/11
1578-P4G	3x3	Pentium G850	2GBx1 1333MHz	500G 7200	DVD±RW	Intel HD	Media	None	None	None	ΝN	Pro 64	01/10/12

- These small and medium business (SMB) models are part of the Western Europe TopSeller™ Program
   These models have a 1-year limited warranty
- These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

	• These systems are Microsoft Office 2010 Product Key Ready (O10PKH)	
Positioning Processor	Stylish design, reliability, and productivity for small/medium businesses Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i5-2400S Processor (4 cores / 4 threads, 2.5GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.3GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	Preloaded operating system <sup>20</sup> Genuine Windows® 7 Professional 64 Preloaded applications <sup>20</sup> (only some listed)  • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe Reader® • Skype™ for Windows
Memory	8GB max, UDIMM, PC3-10600 1333MHz DDR3, two 240-pin DIMM sockets	Microsoft Live     Microsoft Office 2010 preloaded;
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display	purchase product key to activate  • Corel <sup>®</sup> Burn.Now™ (DVD±RW)
Disk Optical SATA controller SATA cables eSATA port Media reader	SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar None Some: 11-in-1 media reader, internal USB 2.0	- ● Corel DVD MovieFactory <sup>®</sup> (DVD±RW)
Chipset	Intel H61 Express Chipset	-
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D	
Rear audio ports Internal connector Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)  Three USB 2.0 planar conn (1 used; two open for additional USB devices)  High Definition (HD) Audio, Realtek® ALC662 codec  Internal speaker for business audio  None  Gigabit ethernet port, Realtek RTL8111E, Wake on LAN®  None  None  None  None	
Keyboard Mouse Floor Stand Power supply	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo None 180 watts, universal, manual switch	
Machine	Glossy black bezel; metal case 13.1" W X 14.5" D X 3.8" H 333mm W X 368mm D X 97mm H 14.3 lb (6.5 kg) in maximum configuration Ergonomic rubberized handle Highlighted optical drive button for easy access	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, opt reader* *bay only available on models with media reader installed	Security  One lock to secure both cover and entire system to fixed object:
Slot	Slot 1: Low Profile, PCI Express® 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1	-Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable)  Power-on password  Administrator password  Hard disk password  Boot sequence control  Boot without keyboard and mouse
Limited Warranty <sup>1</sup>	1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	Individual USB port disablement     RoHS-compliant     Supports ThinkVantage Technologies

## ThinkCentre® Edge 71 Tower (1577) - TopSeller - withdrawn

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Media reader	Parallel port	Serial port	Global Educ	Win7 preload
1577-G1G	3x3	Pentium G840	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	Media	Parallel	Serial	ΝN	Pro 64
1577-G2G	3x3	Core i3-2100	2GBx1 1333MHz	500G 7200	None	DVD±RW	Intel HD	Media	Parallel	Serial	ΝN	Pro 64
1577-G3G	3x3	Core i3-2120	4GBx1 1333MHz	500G 7200	None	DVD±RW	Intel HD	Media	Parallel	Serial	ΝN	Pro 64
1577-H4G	3x3	Pentium G620	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	Media	None	Serial	ΝN	Pro 64
1577-H5G	3x3	Core i3-2120	2GBx1 1333MHz	500G 7200	None	DVD±RW	Intel HD	Media	None	Serial	ΝN	Pro 64
1577-J9G	3x3	Pentium G630	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	Media	None	Serial	ΝN	Pro 64
1577-J8G	3x3	Celeron G530	2GBx1 1333MHz	320G 7200	None	DVD±RW	Intel HD	Media	None	Serial	ΝN	Pro 32

- These small and medium business (SMB) models are part of the Western Europe TopSeller™ Program
- These models have a 1-year limited warranty

	These systems are Microsoft Office 2010 Product Key Ready (O10PKR)  • These systems are Microsoft Office 2010 Product Key Ready (O10PKR)	
Positioning Processor	Stylish design, reliability, and productivity for small/medium businesses  Intel® Celeron® G530 Processor (2 cores / 2 threads, 2.4GHz, 2MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium® G620 Processor (2 cores / 2 threads, 2.6GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium G840 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2100 Processor (2 cores / 4 threads, 3.1GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller	Preloaded operating system  Some: Genuine Windows® 7 Professional 32  Some: Genuine Windows 7 Professional 64  Preloaded applications²0 (only some listed)  • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe Reader® • Skype™ for Windows • Microsoft® Live • Microsoft Office 2010 preloaded;
Implementation	Processor in LGA1155 socket	purchase product key to activate  ■ Corel® Burn.Now™ (DVD±RW)
Memory	8GB max, UDIMM, PC3-10600 1333MHz DDR3, two 240-pin DIMM sockets	Corel DVD MovieFactory® (DVD±RW)
Graphics	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display	-
Disk Optical SATA controller SATA cables eSATA port Media reader	SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar None 11-in-1 media reader, internal USB 2.0	
Chipset	Intel H61 Express Chipset	-
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D	-
Rear audio ports Internal connector Audio Speaker IEEE 1394	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)  Three USB 2.0 planar conn (1 used; two open for additional USB devices)  High Definition (HD) Audio, Realtek® ALC662 codec  Internal speaker for business audio  None	
Ethernet Intel AMT Modem	Gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None None	
Keyboard Mouse	None Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo	-
Power supply  Machine	180 watts, universal, manual switch  ● Glossy black bezel; metal case  ● 6.3" W X 14.0" D X 15.4" H  ● 160mm W X 355mm D X 392mm H  ● 15.4 lb (7.0 kg) in maximum configuration  ● Ergonomic rubberized handle	Security  One lock to secure both cover and entire system to fixed object:
Bay	Highlighted optical drive button for easy access Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, std disk "bay only available on models with media reader installed Slot 1: half-length, full-height, PCI Express® 2.0 x16 (45w max)	-Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password
	Slot 2: half-length, full-height, PCle 2.0 x1 Slot 3: half-length, full-height, PCle 2.0 x1	Boot sequence control     Boot without keyboard and mouse
Limited Warranty <sup>1</sup>	1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	Individual USB port disablement     RoHS-compliant     Supports ThinkVantage Technologies

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Media reader	Parallel port	Serial port	Global Educ	Win7 preload	Ann date (mm/dd/yy)
1577-M2G	0/10	Core i3-2130	2GBx1 1333MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	NN	Pro 64	11/08/11
1577-M3G	3x3	Core i3-2130	4GBx1 1333MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	ΝN	Pro 64	11/08/11
1577-M4G	3x3	Core i5-2400S	4GBx1 1333MHz	500G 7200	None	DVD±RW	Intel HD	None	None	None	ΝN	Pro 64	11/08/11
1577-N3G	3x3	Pentium G630	2GBx1 1333MHz	500G 7200	None	DVD±RW	Intel HD	Media	Parallel	Serial	ΝN	Pro 64	12/06/11
1577-N8G	3x3	Pentium G630	2GBx1 1333MHz	250G 7200	None	DVD±RW	Intel HD	Media	None	None	ΝN	Pro 64	12/13/11
1577-P1G	3x3	Pentium G850	2GBx1 1333MHz	500G 7200	None	DVD±RW	Intel HD	Media	None	None	ΝN	Pro 64	01/10/12

- These small and medium business (SMB) models are part of the Western Europe TopSeller™ Program
- These models have a 1-year limited warranty

	These systems are Microsoft Office 2010 Product Key Ready (O10PKR)  • These systems are Microsoft Office 2010 Product Key Ready (O10PKR)	
Positioning Processor	Stylish design, reliability, and productivity for small/medium businesses Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Pentium G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i5-2400S Processor (4 cores / 4 threads, 2.5GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.3GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller	Preloaded operating system <sup>20</sup> Genuine Windows® 7 Professional 64 Preloaded applications <sup>20</sup> (only some listed)  • Rescue and Recovery™ • ThinkVantage® System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe Reader®
Implementation	Processor in LGA1155 socket	<ul> <li>Skype™ for Windows</li> <li>Microsoft® Live</li> </ul>
Memory	8GB max, UDIMM, PC3-10600 1333MHz DDR3, two 240-pin DIMM sockets	<ul> <li>Microsoft Office 2010 preloaded;</li> </ul>
Graphics  Disk	Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DVI-D, supports dual independent display	purchase product key to activate  • Corel® Burn.Now™ (DVD±RW)  • Corel DVD MovieFactory® (DVD±RW)
Optical SATA controller SATA cables eSATA port Media reader	SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors on planar None Some: 11-in-1 media reader, internal USB 2.0	
Chipset	Intel H61 Express Chipset	-
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DVI-D	-
Rear audio ports Internal connector Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Three USB 2.0 planar conn (1 used; two open for additional USB devices) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None Gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None None None	
Keyboard Mouse Power supply	Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo 180 watts, universal, manual switch	
Machine	Glossy black bezel; metal case 6.3" W X 14.0" D X 15.4" H 160mm W X 355mm D X 392mm H 15.4 lb (7.0 kg) in maximum configuration Ergonomic rubberized handle Highlighted optical drive button for easy access	-
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 1.5", .35" high, access, opt reader* Bay 3: 3.5", 1" high, no access, std disk *bay only available on models with media reader installed	Security  • One lock to secure both cover and
Slot	Slot 1: half-length, full-height, PCI Express® 2.0 x16 (45w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1	entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse
Limited Warranty <sup>1</sup>	1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	Individual USB port disablement     RoHS-compliant     Supports ThinkVantage Technologies





Lenovo ThinkCentre Edge 91z All-In-One (Wireless Keyboard & mouse on selected models only)



Lenovo ThinkCentre Edge 91z All-In-One



Lenovo ThinkCentre Edge 91z All-In-One



Handle



Lenovo ThinkCentre Edge 91z All-In-One



Lenovo ThinkCentre Edge 91z with Stand (ThinkCentre Edge 91z Stand 0A33969)

# ThinkCentre® Edge 91z (7075) - TopSeller - withdrawn

		Widescreen	Camera (mega-	Disk SATA	mSATA	SATA		PCIe Mini Card	Media	Stand	Keyboard		Win7			
Type-model Proces	ssor Memory <sup>8</sup>	display	pixel)	GB rpm	SSD	optical	Graphics	WLAN	reader	type	/Mouse	Global				
7075-B5G i5-240				500G 7200			Intel HD	Intel 1000		Frame	Wireless		Pro 64			
7075-D2G i5-240						DVD±RW		Intel 1000		Frame	Wireless		Pro 64			
7075-G6G i3-210 7075-H3G i3-212		21.5" Full HD				DVD±RW DVD±RW		Intel 1000	Media		Edge USB Wireless		Prem 32 Pro 64			
7075-H3G 13-212 7075-J1G 13-212		21.5" Full HC 21.5" Full HC				DVD±RW		Intel 1000 Intel 1000		Frame Frame	Edge USB					
7075-31G 13-212		21.5" Full HD				DVD±RW	Intel HD	Intel 1000		Frame	Wireless		Pro 64			
7075-K8G i5-240						DVD±RW		Intel 1000		Frame	Wireless		Pro 64			
		t space savin														
		se small and				dels are pa	rt of the W	estern Euro	pe TopS	eller Pro	gram					
		se models ha				duat Kay Ba	ody (010)	OVD)								
Danitianian		se systems a				duci key ke	ady (OTO	-KH)	Duala							
Positioning Processor		n-One PC for ™ <b>i3-2100 Pr</b> o				s 3 1GHz :	3MB cach	2)			erating syst					
1 10000001		n Technology		•			OIVID OUOIN	-),	Some		ne Windows <sup>©</sup> sional 64	∘ 7				
		333MHz dual							Some		ne Windows	7 Home	9			
	-	3-2120 Proce			-		B cache),			Premiu			-			
		n Technology	•				,,		Preloa	aded apı	plications <sup>20</sup>	(only so	ome			
	integrated 1	333MHz dual	-channe	I DDR3 men	nory cor	ntroller			listed)			` ,				
	Intel Core i	3-2130 Proce	essor (2	cores / 4 th	reads,	3.4GHz, 3M	B cache),		• Res	cue and	Recovery™					
		n Technology	-						• Thin	kVantag	e® System U	lpdate				
	0	333MHz dual			,						e Power Mar e Toolbox	nager				
		5-2400S Pro	,				,				ernet Securit	y 2011				
		n Technology		•	,	-	itel HD Gra	apnics,	(30	days of v	rirus definitio					
Implementation	•	333MHz dual n LGA1155 so		i DDR3 men	nory cor	itroller				be Read pe™ for V						
Memory		PC3-10600 13		DDR3 two 2	04-nin (	SODIMM so	ckate (not	ahook)			ffice 2010 pr	eloade	d;			
Graphics		raphics in pro						<del>book)</del>	purc	hase pro	duct key to	activate				
Graphics								W			Now™ (ĎVD		- D\\\\			
Widescreen	external digital monitor support via HDMI, supports dual independent display 21.5" (545.2mm) Full HD 1080p (1920x1080) TFT color, infinity display,										lovieFactory 'D (DVD, DV					
display	LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio;									(212, 212=)						
	-	andalone mor														
Multi-touch	None															
Camera		top of screen														
0	integrated digital MIC array with stereo, LED indicator Front facing buttons for brightness up/auto, brightness down, power on/off, and Video															
Controls				•	ightness	s down, pow	er on/off, a	and Video ir	1							
Disk		o/s, 3.5" Wide	, 7200 rp	om												
mSATA™ SSD Optical	None  DVD burner	r, SATA 1.5Gb	/e 12 7r	nm hịah five	d not r	emovahle										
eSATA port	None	, 0414 1.500	73, 12.71	illii illgii, ilxc	a, not n	ciliovabic										
Media reader		a reader, inter	nal USE	3 2.0												
Chipset	Intel B65 E	xpress Chips	set													
Rear ports		2.0, ethernet (I														
Side ports		0, microphon			eadphor	ne (stereo, 3	3.5mm)									
PCIe Mini Card		press® Mini C			alau Daa	1. 1000 10	,									
PCIe WLAN Bluetooth	None	eless, Mini PC	ле адар	ter, intel Cor	idor Pea	ak 1000, 1x2	<u> </u>									
Ethernet		ethernet port	Intel 82	2579I M												
Audio		tion (HD) Audi			Q											
Speaker		l stereo speal														
Intel AMT	None															
Modem	None															
IEEE 1394 Security chip	None None												١			
Keyboard		NOVO® Clim LIC	D Kouk	ord (LICD	nnosta	r) block I =	2010 1222		$\dashv$							
Neyboaiu	Some: Ultr	novo® Slim US aslim Plus Wi	reless K	evboard (2.4	GHz via	a USB recei	ver). black									
Mouse	Some: Enh	nanced Optica	al USB M	louse, 10000	dpi, blac	k, Lenovo lo	ogo Ó									
Power ourse		aslim Plus Wi			Hz via U	SB receiver	), black									
Power supply Machine	· · · · · · · · · · · · · · · · · · ·	autosensing, 8		,												
Machine	<ul><li>Model(s) wi</li><li>Business</li></ul>	ith Frame star	iu.						Secur		Con many					
		6 3.2" D X 16.5	3" H								(in rear for a sington® Mic					
				n H (with feet	t)						ock also lock					
	18.5 lb (8.4 kg) in maximum configuration     Handle in rear							• 18.5 lb (8.4 kg) in maximum configuration								
										keyboard ar ablement	nd mous	se				
	<ul> <li>Support V</li> </ul>	/ESA mount (	100mm)								compliant					
	Removab										R® 5.0-comp	liant				
Limited Warranty									GREE	NGUAR	D® certified					
		idays. Calls re				e an addtior	nal next bu	siness day		-complia						
	for service of	dispatch / serv	vice upgi	rades availal	ole			_	Suppo	orts Think	«Vantage Te	chnolog	ies			
See footnotes for			-4:										⊚l enovo			

### ThinkCentre® Edge 91z (1732) - Multi-touch (TopSeller) - withdrawn

Personal Systems Reference (PSREF)

Type-model Processo	r Memory <sup>8</sup>	Widescreen display	Camera (mega- pixel)	Disk SATA GB rpm	mSATA SSD	SATA optical	Graphics	PCle Mini Card WLAN	Media reader	Stand type	Keyboard /Mouse	Global	Win7 preload
1732-A5G i3-2120 1732-A9G i3-2130	-	21.5" Full HD 21.5" Full HD		500G 7200 500G 7200				Intel 1000 Intel 1000					Pro 64 Pro 64

- •Best space saving solution & excellent cable management
- These small and medium business (SMB) models are part of the Western Europe TopSeller Program
- These models have a 1-year limited warranty
- These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Stylish All-In-One PC for small/medium businesses Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), Virtuelization Tachardon integrated latel LID Combine	Preloaded operating system <sup>20</sup> Genuine Windows <sup>®</sup> 7 Professional 64			
	Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller	Preloaded applications <sup>14</sup> (only some			
	Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),	listed)			
	Virtualization Technology, integrated Intel HD Graphics,	<ul> <li>Rescue and Recovery™</li> <li>ThinkVantage® System Update</li> </ul>			
	integrated 1333MHz dual-channel DDR3 memory controller	ThinkVantage System opdate     ThinkVantage Power Manager			
Implementation	Processor in LGA1155 socket	ThinkVantage Toolbox			
Memory	8GB max <sup>7</sup> , <b>PC3-10600 1333MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	Norton™ Internet Security 2011     (30 days of virus definitions)			
Graphics	AMD Radeon™ HD 6650A, 1GB memory, DirectX® 11, PowerPlay™ technology,	Adobe® Reader®  ´			
Display	external digital monitor support via HDMI™, supports dual independent display 21.5" (545.2mm) Full HD 1080p (1920x1080) TFT color, infinity display,	<ul> <li>Skype™ for Windows</li> <li>Microsoft® Office 2010 preloaded;</li> </ul>			
	LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio;	purchase product key to activate  • Corel® Burn.Now™ (DVD±RW, Blu-ray™)			
Multi-touch	works as standalone monitor via VGA-in connector Supports Multi-touch function	Corel DVD MovieFactory® (DVD±RW)			
Camera	Camera on top of screen, 2.0-megapixel, fixed focus,	Corel WinDVD® (DVD, DVD±RW, Blu-ray)			
- Carriora	integrated digital MIC array with stereo, LED indicator	Ulead DVD MovieFactory     (Blu-ray model(s) only)			
Controls	Front facing buttons for brightness up/auto, brightness down, power on/off, and Video in	(Did-ray moder(s) only)			
Disk	SATA 6.0Gb/s, 3.5" Wide, 7200 rpm				
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable				
mSATA™ SSD eSATA port	None None				
Media reader	7-in-1 media reader, internal USB 2.0				
Chipset	Intel B65 Express Chipset	_			
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI, VGA-in connector				
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				
PCIe Mini Card PCIe WLAN <sup>4</sup>	Two PCI Express® Mini Card slots 11b/g/n wireless, Mini PCIe adapter, Intel Condor Peak 1000, 1x2				
Bluetooth™	None				
Ethernet	One gigabit ethernet port, Intel 82579LM				
Audio	High Definition (HD) Audio, Realtek® ALC269Q				
Speaker Intel AMT	Two internal stereo speakers (2x2w) with amplifier None				
Modem	None				
IEEE 1394	None				
Security chip	None				
Keyboard	Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black				
Mouse Power supply	Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black 180 watts, autosensing, 92% PSU				
Machine	Model(s) with Frame stand:	_			
Machine	Business black color	Security			
	• 21.5" W X 3.2" D X 16.3" H	Security slot (in rear for attachment of			
	• 545mm W X 81mm D X 414mm H (with feet)	optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)			
	• 18.5 lb (8.4 kg) in maximum configuration	Boot sequence control			
	Handle in rear	<ul> <li>Boot without keyboard and mouse</li> </ul>			
	Support VESA mount (100mm)	USB port disablement			
	Removable feet	Climate Saver-compliant  ENERGY STAR® 5.0-compliant			
Limited Warranty	<sup>2</sup> 1-year, limited onsite service <sup>24</sup> , 8 am-5 pm, Mon - Fri coverage excluding public and	GREENGUARD® certified			
,	national holidays. Calls received after 3 pm will require an addtional next business day	RoHS-compliant			
	for service dispatch / service upgrades <sup>22</sup> available	Supports ThinkVantage Technologies			

See footnotes for important warranty information WE models announced September 6 or November 8, 2011 **Availability:** All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

**Warranty:** For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.

- Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.
- <sup>2</sup> Hard drive: GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
- 3 Limited onsite service systems are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. In the United States call 1-800-426-7378. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.
- 4 CD and DVD list maximum rates; rates are variable and are often less than the maximum.
- Included software may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.

- <sup>6</sup> Multi-Burner Plus (part number 73P3305 or 73P3370) is a DVD±RW device that reads and writes to DVD-RAM, DVD-R, DVD-RW, DVD+R, and DVD+RW. It also reads and writes to CD-R and CD-RW media. 73P3370 also writes to DVD+R double layer media.
- ThinkPlus Services: These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. P&L means parts and labor. P/U means pick-up. See ThinkPlus terms and conditions for complete details and restrictions.
- 8 Memory: For PCs without a separate graphics card, memory supports both system and video. Accessible system memory may be up to 384MB less than the amount stated, depending on video mode.
- <sup>9</sup> International Warranty Service is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

- 10 Modem speeds: Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
- For combination drives, maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.
- <sup>14</sup> Response times may vary. May exclude some holidays. Telephone support may be subject to additional charges.
- <sup>15</sup> Update Connector is available at no charge to registered customers during the limited warranty period. Line charges may apply.
- Embedded Security Subsystem works with optional VPN software.

- 18 Embedded Security Subsystem may require download of client security software from the Web.
- <sup>19</sup> Asset ID allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.
- Operating System: Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

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